G. R. S. 58]

Previous references.

1914-15 (Edn.)

Later references.

File No. 28-14

Serial Nos. 118, 198, 207, 210, 211, 212, 213, 214, 217

GENERAL AND REVENUE SECRETARIAT.

P

Serial Nos. 118, 198, 207, 210 to 214 & 217.

Part B for August, 1916.

SUBJECT.

Pathmaps to the book "An Indian Ephemeris published by L. D. Swamikannu Pillai Esqr, Madras.

Sl 210

To The Registr. Ch. Court. Sy. of Edn. Sy. of Police & no. 4960-5. & 21.3.916.

Sanction the purchase of 45 Copies of the above book.

W D 1351—GPB—20,000—13-12-13

B. N. Silencamaiyn 21.9.16.

G.R.S. 11] 1914.15

GENERAL A[illegible]EVENUE SECRETARIAT.

(Edn)

NOTES.

File No. 28-14

FILE HEADING.

Applications for patronage

From

The Hon'ble Diwan Bahadur L. D. Swaminadha Pillai
chepauk, Madras. M.A. B.L (Madras) LL.B (London)

No. Petn. Dated April 15 Received

Diary No. 2579	Enclos.	Spare Copies.	Serial No. 118

BRIEF ABSTRACT OF LETTER.

Requests patronage for his publication "An Indian Ephemeris", and also to the companion work "Indian Chronology"

NOTES AND ORDERS.

J. No. 456-14 Secy.

Secy 26 bl

Dy. C may perhaps be requested on the merits of the works.

2 Publications of this kind are usually much in demand only in Courts.

3 In favour of giving whether the books are req[illegible] by the local Courts

Edn 26/4

NOTES—First Sheet.

General and Revenue Secretariat.

File No. 28 of 1914-15

Serial No.	
	Sub.
	Reg. 26/4/15. An Ephemeris plus Sort in questions absolutely necessary for each civil court in the Province. The Ephemeris which was supplied to the courts sometime ago, is quite antiquated and pro use for reference. Each court may be supplied with a copy.
	26/4
	(By Br VI) For orders, whether the Cost-payment be debited to the Contingencies of the respective courts. In such a case, the file will be transferred to Br VI for disposal.
	6 If however, the books may be purchased from the provn under "Encouragement to Authors", the D.Q. will be consulted.
	7 If 100 copies are bought, the author promises to supply tables for determining titles etc in the various places in the State
	Br III 28/4.
	Secy 8 The Chief Court may be consulted (by Br VI) as to how many copies are required & whether cost may not be met from contingencies. When we can find out what other Depts Govt & a consolidated order may be issued.
	Br III 1/5. C&S 1/5/15

NOTE—Contn. sheet.

GPB—25,000—22-3-15

456

R. S. 12]

General and Revenue Secretariat.

Edn File No. 28 of 1915

Serial No.

J.H.O 91-14.

5. 15

To

Registrar, Chief Court, for favour of
noting if the Chief Court consider the
supply of the Ephemeris to each of the
Courts necessary and if so, how many
copies are req^d in all by the Civil Courts
and whether the cost of the books may
be met from the contingent fund of
the Court, to which it is supplied, in the
current year's budget.

By order

E Srinivasaiyangar

17.5 In C.H.O: See 4 below

12
17.5

No. 555/385

CHIEF COURT OF MYSORE,

25th June 1915.

10 This Court is of opinion that the -

Ephemeris may be useful to the lower courts and recommends that a copy may be supplied to each of the courts. In all 30 copies are necessary. From the replies of lower courts it is gathered that they can meet the cost from their contingent grants for the next

official

111
Edn
28/6

NOTE—Contn. sheet.

GPB—65,000—17-6-12.

1 R. S. 12]

General and Revenue Secretariat.

File No. 29 of 1914-15

Serial No.	
	official year.
	11 Sub°. may be ret. to Bor VI.
	Bor VI)
	Sub° with refce. to second part of para 8 of the note supra.
	13 The D. P. E. may, if consulted, be able to add to the number of copies required. The Ephemeris may as well go into the Ol Liby, the two Public Libraries, and the Libraries of the two Colleges. submd. for order.
	14 Forwarded unofficially to the Deputy Director General of Education for opinion as to the number of Copies that may be required for his department and the Libraries ref^d to above.
	By order

R. Hopkinson

REGISTRAR.

7.7.15

7/7/15

E&A 11/7/15

E&A 11-15
WO 10.7.15

NOTE—Contn. sheet.

9/7/15 GPB—65,000—17-6-12.

] R S. 12]

General and Revenue Secretariat.

Ed File No. 24 of 1914

Serial No.

No: 7291 2.7.15

15 Eight copies may be ordered for the Education dept to be paid for from the allotment provided for Encouragement to authors and be distributed to 1. Edl Library / Central College / Mechanical College / Training College / Maharaja's College. / Oriental Library 2. Public Libraries Edml Dept.

The Share Road
12.7.1915

VI
Mem
13/7

W Ed
14/7

16 This gives us a demand for 38 copies between the Govt's & Edn. Dept. Subs for wars (vide paras 7 & 8 supra)

9/15 Other departments such as the Revenue, Police, Excise, may also be Consulted It is only if 100 Copies are ordered that the author promises to supply books for determining 'Thithis' & nakshatras in local time for various places in the State.

Secy)

Mem 15/7

In The Heads of the Depts - Rev. Police & Excise may be consulted in

Govt 16/7

NOTE—Contn. sheet.

Ed 1

GPB—65,000—17-6-12.

2579

Serial No.

EoA
W 0 21-15
9.20.7.15

1/1 3/9/15

B. C. M 4
1915—16.

1) Forwarded Unofficially to the Rev. Commr. in hopes for favour of stating if any number of copies of the Ephemeris are required for his department.

B. O.
Mr. Ramachandra
17.7
for Secy. to Govt:
E & A.

Banc(a ixe)
by Jul 1915
Le

2) As I cannot get a copy of the book I am not in a position to say how far it would be useful to my department.

Edwards
Re
31—8—15
1—9—15

2) Nothing more than the sample pages sent by the author along with his application is available of the Ephemeris.

2) Forwarded Un-officially to the D. S. of Police for favour

NOTE—Contn. sheet.

GPB—25,000—30-4-15

G. R. S. 12]

2579

General and Revenue Secretariat.

Edn File No. 28 of 1914

Serial No.

Ed dA
W.O. 5-1-15
" 8.9 15
VII
10/9 Jw

of stating if any number of copies are required for the Police dept.

B. A.
I/C Secy. Edn Dept.

W. Hons

Yes copies may be sent.

9/9/15

24

Forwarded unofficially to the Excise Com^r & I. G. of Registration for favour of stating the number if any of copies of the Ephemeris that might be required for the departments under him.

By order.
I/C Secy. to Govt. Edn Dept.

W. Hons

25

A Copy each for the Excise & the Registration departments respectively may be ordered to be supplied.

Recd & circulated
Excise Comm^r & Insp Genl of Regn
Camp Arcot 18/9/15

Ed dA
W.O. 6-9-15
" 16-9-15

W.O. No. 8 of 15-16.
" 21-7-15.

NOTE—Contn. sheet.

GPB—20,000—30-6-15

8

2579

G. R. S. 12]

General and Revenue Secretariat. | Edn File No. 28 of 1914.

Serial No.

2. All the Heads of Depts named in para 18 supra have now expressed their opinions. The demand for the Ephemeris so far is for 41 copies only, as follows.

Edn. Deptt.	8	
Genl —	30	
Rev. —	.	(not stated)
Police —	1	
Excise & Regn —	2	
	41	

Submd. with reqn to para 7 of Note No. 5 & 2579/27 the issue of each copy of B 5 we may take. Nine more copies will be required for reference in the Secretariat, Commissioner's Office, the Imperial Library & Record Office. Rest of all B 250 will have to be printed for this. Secondly may the authority be requested to state whether the 30 copies required by Genl Deptt & Retrenchment

Dy 27/5

Dy 30/5

2 Please work up a draft for draft portion. 2400 Dy

Dy 1

NOTE—Contn. sheet.

GPB—25,000—30-4-15

2579

G. . S. 12]

General and Revenue Secretariat.

File No. of 191

Serial No.	
	29) Draft sent for approval. Before issuing the Draft, it is necessary to find funds for the purchase & get the approval of the Govt. for the purchase & distribution! 4/10
	30) Draft approved by Govt. 5.10.15. 6/10
	31) Draft appd: by First member 9.10.15.
	Issued
198	To the Hon'ble Dewan Bahadur L.D. Swamikannu Pillay, Madras. No 1785 dt 20.X.15. Requested him to be informed if he would supply the Tables for determining Tithis & Nakshatras etc. in local time in case the Govt. purchase 50 Copies of the Ephemeris
207	From Hon'ble Dewan Bahadur Swamikannu Pillay Letter dt 5th February 1916. States that he has no objection to supply Ten Copies of such Tables in addition to as many

NOTE.—Contn. sheet.

GPB—25,000—23-1-15

2901

G. R. S. 12]

General and Revenue Secretariat.

File No. 28 of 191 4

Serial No.	
	many copies of his "Indian Ephemeris" provided Govt. pay the extra cost etc. Submitted for orders.
	25.2.16. 30 The enquiry from this office was with refce to the last sentence in para. 2 of Diwan Bahadur Sivaramakrishna Pillai's letter, because our demand did not go higher than 50 copies. The answer to this is contained in the latter part of the reply now sent. ~~to~~ The tables are apparently not necessary. Subd. for orders
	25/2 31. I think instead of mentioning advertised cost, about 4 or 5 copies at Rs 5 per each copy as circulating ones may be purchased. & that the rest-as follows:
	30 copies from the Registration Branch. 8 — from Geography 1 — — Geology & Mines 2 — — Meteorology 4 copies — — Records Department
	Secretary 25/2 32. The Asst Secretary may be apptd 1st Member 33. Orders 28/2/16 25/2

NOTE—Contn. sheet.

GPB—70,000—17-12-15

2901

G. R. S. 12]

General and Revenue Secretariat. — File No. 2 of 1914

Serial No.	
	Draft put up.
2/3	3 Draft put up (Secret Number) Krishnan 1/3
	4 A reply that no further tables are required may be sent. Secret H. 6/3/16
	5 Draft letter is put up. Secret 15/3/16
	6 A reply that no further tables are required. Let this be sent. Secret 8/3
13/3	7 Draft letter is put up. Secret 15/3/16
	8 Draft letter is put up. Secret 15/3/16
	9 Draft letter is put up. Secret 15/3/16
	10 To the Registrar of Co-operative Societies No. 4160-5/28. 28-4-20 & 24-3/16 Secretariat Note Book.

NOTE—Contn. sheet.

12

3632
3741

G. R. S. 12]

General and Revenue Secretariat. (D) File No. 28 of 1914 —15—

Serial No.	
11	To the Hnble Secretary Bombay L.D. Swaminathan Pillai. No 4966 & 21-3-16 sends a copy of the above order.
12	From Mr. L.D. Swaminathan Pillai letter & 26.3.16 Informs that the 205 copies ordered will be sent to the address unless he hears to the contrary by wire.
34	The receipt of the books may be awaited. He seems to have already sent them by separate packet by Railway. R/ 28/3/16
35	J.S. Grant-Asst.
(Handed)	From Mr. L.D. Swaminathan Pillay, & 31.4.16 Advises despatch by goods train 45 copies of the Ephemeris.
36.	Draft sub? The books have been received & are kept in the Library.
	Issue accd. Not to Leg & inform.

ISSUE & SUBMIT.
for FURTHER ACTION

NOTE—Contn. sheet

GPB—70 000—17 12 15

Gen 22-44 13

G.R.S. 13] 8.3741

Routine Notes.

[To be used only for notes, requisitions, etc., not intended for permanent record.]

From Mr. L.D. Swamikannu Pillay, Madras.

Advises despatch by Goods train 4 copies of this work "Ephemeris".

30 To Cash Section for kindly taking delivery of the parcel at once & return this file with the above.

Sd/- V.V.
4/4/16.

31 The books were received yesterday & sent to the Library today

Sd/-
12-4-16.

Sd/- V.V.

Ch. M.

N B —Should routine notes be written on small slips, the notes must be copied on this form.

GPB - 50,000—5-8-15

G. R. S. 12]

General and Revenue Secretariat. | Edn File No. 28 of 1914.

Serial No.	
213.	To the Registrar, Chief Court. Lg. & Edn.
	" Lg. & Police.
	" Excise Commissioner & Lg.
	Registration
	No. 6111-4. dt 24.4.916.
	Forward copies of Indian Ephemeris and requesting to remit the cost of Rs 5 thereof.
214.	To The Hon'ble Dewan Bahadur M.R.Ry. L.D. Swaminadha Pillai, M.A. B.L. L.L.B. Chepauk
	Registrar of Co-operative Societies Madras.
	No. 6115 dt 24.4.916.
	Acknowledge receipt of 45 Copies of this book and forwards Rs. 20 being the cost of 4 of them and intimating that the cost of the rest will be remitted by the heads of Depts to whom they are sent.

NOTE—Contn. sheet.

GPB—70,000—17-12-15

15

G.R.S. 13]

Routine Notes.

[To be used only for notes, requisitions, etc., not intended for permanent record.]

---

41 As Dr L D Swamikannu Pillai has not acknowledged the receipt of the sum of Rs 20 sent to him as cost of the 4 copies of "Indian Ephemeris" supplied to this office, a draft calling for a receipt is sub?

9A 16/6/16 18/6/16

Come up 24/6

To

The Honble Dewan Bahadur
M.R.Ry L.D. Swamikannu Pillai.
No 7456 dt 23 6 16.

Invite reference 45 of 213 and request to be furnished with an acknowledgment for the receipt of the sum of Rs 20/- thereunto remitted.

N.B.—Should routine notes be written on small slips, the notes must be copied, or slips pasted on this form

GPB—50,000—5-8-15

5743

G. R. S. 12]

General and Revenue Secretariat. | Ed. File No. 28 of 1914.

Serial No.	
214	From the Registrar, Chief Court. No. 5892/429 dt 24.6.16 with refce to Sl 213, forwarding 30 copies of the Ephemeris, returns 2 copies as the First Munsiff of Mysore + the Munsiff of Chikballapur reported that each of them had purchased a copy direct from the Author.
	The two copies of the Ephemeris have been recd. These will be sent to the Library if approved.
	As the Registrar has not however intimated for how many copies he has paid, a draft enquiring is subd for approval or other orders.
	Sd 4.7.16 D Krishna Rao
217	To. The Registrar of the Chief Court of Mysore No. 310 Dt/10.7.16. Enquires how many copies were paid for by him direct. From the Hon'ble Dewan Bahadur. L.D. Swamikannu Pillai. — In duplicate Forwards receipts acknowledges the receipts of the sum of Rs 20. being the Cost of copies of "Indian Ephemeris AD 1800 to 2000" retained by this Office. These receipts may be sent to the Cash Section — Sd 27.7.16 D Krishna Rao Cash Section Sd/ 28/7

NOTE—Contn. sheet.

GPB —70,000—17 12 15

17

G. R. S. 12]

General and Revenue Secretariat.

File No. 1 of 1914.

Serial No.	
	46 The original receipt for Rs 20/- was removed from the file for transmission to the Accountant
	(i) To Branch VI with duplicate receipt.
	18

NOTE—Contn. sheet.

GPB —70,000—17-12-15

DIARY No. 2579

19-19
CHEPAUK,
SECTION April 1915.
FILE No. Edn 28-14
SPECIAL No. 4 118

From

The Hon'ble Dewan Bahadur
L. D. SWAMIKANNU PILLAI, M A, B.L. (Madras), LL.B. (London),
Fellow of the Madras University,
CHEPAUK, MADRAS.

To

THE CHIEF SECRETARY TO THE GOVERNMENT OF
His Highness the Maharaja of Mysore

SIR,

I have the honour to forward to you specimen pages of my last publication, "*An Indian Ephemeris*", A D 1800 to A D 2000, which is a trayanga, giving the *Vâra*, *Tithi* and *Nakshatra*, with ending moments, and Tamil, English and Muhammadan equivalents, for every day in the year, for 200 years, also the places of planets, for every tenth day in the year from A D 1910 to A D. 2000, Solar and Lunar eclipses; rules for determining Lagna and casting Horoscopes, etc The specimen pages show (1) details of *Tithi*, *Vâra* and *Nakshatra* for one whole year, (2) the places of planets for ten years A D 1910 to A D. 2000. The decimal places of a day are explained in the enclosed book-marker The work contains 450 pages, of which 400 contain the trayanga for 200 years, A.D 1800 to A D 2000, at the rate of 2 pages in an opening for each year, while 18 pages give the details of planetary motions from A D. 1910 to A D 2000, and there are 20 pages of introduction The whole is a bulky but portable volume, priced Rs 5, and published by Messrs Grant & Co, Râyapuram, Madras

The Government of Madras have purchased 1,500 copies of this work for distribution to Revenue, Civil and Criminal Courts and public offices throughout the Madras Presidency. Apart from the obvious advantages which the work possesses over annual panchângas, which have hitherto been the exclusive sources of information on these subjects to the public as well as in public offices, I may point out that the work presents a unique feature in that it incorporates details of all kinds for 85 years to come as well as for 115 years past No panchânga is in existence which gives details for even two or three years to come All the calculations are made to mean Lanka time, and the necessary corrections for Local time for various places in Southern India, in the Bombay Presidency and in H H the Naizam's Dominions are given in a separate appendix. Should you order one hundred copies or more, I shall be glad to supply tables for determining tithis and nakshatras, etc, *in local time* for various places in your province

I hope your Government will also be pleased to order some copies of the companion work, "*Indian Chronology*" (1911), of which a prospectus is enclosed. Opinions on the present work by the Madras Newspapers have been very favourable, but the action of the Madras Government in ordering 1,500 copies of the work will, I trust, be regarded as a more palpable testimony to its worth and importance than anything else I could say on its behalf

I have the honour to be,
Sir,
Your most obedient servant,

L D Swamikannu

THE AUTHOR

HOE & CO PRINTERS MADRAS

AN

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—A.D. 1800 to A.D. 2000—

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and for every ten days, from A.D. 1910 to A.D. 2000,

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BY

DEWAN BAHADUR L. D. SWAMIKANNU PILLAI,

M.A., B.L. (MADRAS); LL.B, (LONDON); FELLOW OF THE UNIVERSITY OF MADRAS;

Author of "Indian Chronology".

(PUBLISHED UNDER THE PATRONAGE OF THE GOVERNMENT OF MADRAS.)

PRINTED BY HOE & CO., AT THE 'PREMIER PRESS', 5, STRINGER'S STREET, GEORGETOWN, MADRAS

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PRICE RS. 5.]

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1915.

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THE EPHEMERIS

(A. D. 1800 to A. D. 2000)

A. D. 1800.
Solar Eclipse. ●
Lunar Eclipse. ○

Mesha Sankranti. (Commencement of Indian Sidereal Year).
(Surya Sid.) April 10·74. **Saka 1722.** **Kaliyuga 4901.**
(Arya Sid.) April 10·64. **(S. Cycle) Raudra.**

SOLAR reckoning.			LUNAR reckoning.				SOLAR reckoning.			LUNAR reckoning.				SOLAR reckoning.			LUNAR reckoning.			
Cyclic Sidereal Year, Month and Day.	Week-Day English Month and Day.		Tithi Ending Moment.	Nakshatra Ending Moment.		Muhammadan Year, Month and Day.	Cyclic Sidereal Year, Month and Day.	Week-Day English Month and Day.		Tithi Ending Moment.	Nakshatra Ending Moment.		Muhammadan Year, Month and Day.	Cyclic Sidereal Year, Month and Day.	Week-Day English Month and Day.		Tithi Ending Moment.	Nakshatra Ending Moment.		Muhammadan Year, Month and Day.
	Jan.							**March**							**May**					
20	W	1	6 ·42	25 ·52		4	20	Sa	1	6 ·99	2 ·49		4	21	Th	1	7 ·42	8 ·62		
21	Th	2	7 ·47	26 ·59		5	21	Su	2	... ...	3 ·59		5	22	Fr	2	8 ·43	9 ·65		6
22	Fr	3	8 ·54	27 ·69		6	22	Mo	3	7 ·07	4 ·71		6	23	Sa	3	9 ·41	10 ·66		7
23	Sa	4	9 ·62	1 ·79		7	23	Tu	4	8 ·14	5 ·80		7	24	Su	4	10 ·38	11 ·65		8
24	Su	5	10 ·70	2 ·89		8	24	We	5	9 ·22	6 ·88		8	25	Mo	5	11 ·33	12 ·62		9
25	Mo	6	11 ·80	... ...		9	25	Tu	6	10 ·27	7 ·94		9	26	Tu	6	12 ·26	13 ·59		10
26	Tu	7	12 ·88	3 ·00		10	26	Fr	7	11 ·31	8 ·98		10	27	We	7	13 ·18	14 ·53		11
27	We	8	13 ·96	4 ·10		11	27	Sa	8	12 ·32	... ...		11	28	Th	8	14 ·09	15 ·47		12
28	Th	9	... ...	5 ·19		12	28	Su	9	13 ·31	9 ·01		12				P ·00			
29	Fr	10	14 ·02	6 ·27		13					10 ·01			29	Fr	9	1 ·89	16 ·40		13
1	Sa	11	P ·05	7 ·32		14	29	Mo	10	14 ·27	11 ·99		13	30	Sa	10	2 ·79	17 ·33		14
2	Su	12	1 ·07	8 ·35		15	1	Tu	11	P ·23	12 ·96		14	31	Su	11	3 ·68	18 ·27		15
3	Mo	13	2 ·06	9 ·36		16	2	We	12	1 ·16	13 ·91		15	1	Mo	12	4 ·59	19 ·20		16
			3 ·04				3	Th	13	2 ·08	14 ·86		16	2	Tu	13	5 ·51	20 ·15		17
4	Tu	14	4 ·99	10 ·35		17				3 ·00				3	We	14	6 ·43	21 ·10		18
5	We	15	5 ·93	11 ·33		18	4	Fr	14	4 ·90	15 ·79		17	4	Th	15	7 ·39	22 ·07		19
6	Th	16	6 ·86	12 ·29		19	5	Sa	15	5 ·80	16 ·72		18	5	Fr	16	8 ·34	23 ·06		20
7	Fr	17	7 ·77	13 ·24		20	6	Su	16	6 ·70	17 ·65		19	6	Sa	17	9 ·33	24 ·07		21
8	Sa	18	8 ·68	14 ·18		21	7	Mo	17	7 ·60	18 ·58		20	7	Su	18	10 ·33	25 ·09		22
9	Su	19	9 ·57	15 ·11		22	8	Tu	18	8 ·51	19 ·53		21	8	Mo	19	11 ·36	26 ·14		23
				16 ·05			9	We	19	9 ·43	20 ·48		22	9	Tu	20	12 ·41	27 ·20		24
10	Mo	20	10 ·48	17 ·98		23	10	Th	20	10 ·36	21 ·44		23	10	We	21	13 ·45	1 ·30		25
11	Tu	21	11 ·38	18 ·91		24	11	Fr	21	11 ·31	22 ·42		24	11	Th	22	14 ·54	2 ·39		26
12	We	22	12 ·29	19 ·85		25	12	Sa	22	12 ·28	23 ·41		25	12	Fr	23	A ·62	3 ·50		27
13	Th	23	13 ·22	20 ·81		26	13	Su	23	13 ·26	24 ·42		26	13	Sa	24	1 ·71	4 ·60		28
14	Fr	24	14 ·14	21 ·78		27	14	Mo	24	14 ·27	25 ·47		27	14	Su	25	2 ·77	5 ·70		29
15	Sa	25	A ·09	22 ·77		28	15	Tu	25	A ·30	26 ·52		28	15	Mo	26	3 ·84	6 ·79		1
16	Su	26	1 ·06	23 ·77		29	16	We	26	1 ·33	27 ·59		29	16	Tu	27	4 ·90	7 ·88		2
17	Mo	27	2 ·05	24 ·79		1	17	Th	27	2 ·40	1 ·68		1	17	We	28	5 ·92	8 ·93		3
18	Tu	28	3 ·05	25 ·83		2	18	Fr	28	3 ·48	2 ·79		2	18	Th	29	6 ·93	9 ·97		4
19	We	29	4 ·07	26 ·91		3	19	Sa	29	4 ·57	3 ·90		3	19	Fr	30	7 ·91	10 ·98		5
20	Th	30	5 ·13	27 ·99		4	20	Su	30	5 ·66	... ...		4	20	Sa	31	8 ·89	11 ·97		6
21	Fr	31	6 ·20	... ...		5	21	Mo	31	6 ·74	4 .01		5							
	Feb.							**April**							**June**					
22	Sa	1	7 ·27	1 ·08		6	22	Tu	1	7 ·80	5 ·10		6	21	Su	1	9 ·83	12 ·96		8
23	Su	2	8 ·35	2 ·19		7	23	We	2	8 ·86	6 ·19		7	22	Mo	2	10 ·77	13 ·92		9
24	Mo	3	9 .45	3 ·30		8	24	Th	3	9 ·89	7 ·25		8	23	Tu	3	11 ·68	14 ·87		10
25	Tu	4	10 ·53	4 ·40		9	25	Fr	4	10 89	8 ·31		9	24	We	4	12 ·59	15 ·81		11
26	We	5	11 ·61	5 ·50		10	26	Sa	5	11 ·88	9 ·33		10	25	Th	5	13 ·48	16 ·74		12
27	Th	6	12 ·66	6 ·57		11	27	Su	6	12 ·84	10 ·34		11	26	Fr	6	14 ·38	17 ·68		13
28	Fr	7	13 ·70	7 ·63		12	28	Mo	7	13 ·80	11 ·32		12	27	Sa	7	P ·29	18 ·61		14
29	Sa	8	14 ·71	8 ·67		13	29	Tu	8	14 ·73	12 ·29		13	28	Su	8	1 ·18	19 ·54		15
30	Su	9	P ·69	9 ·68		14	30	We ○	9	P ·65	13 ·24		14	29	Mo	9	2 ·10	20 ·48		16
1	Mo	10	1 ·67	10 ·69		15	31	Th	10	1 ·56	14 ·20		15				3 ·01			
2	Tu	11	2 ·62	11 ·66		16	1	Fr	11	2 ·46	15 ·13		16	30	Tu	10	4 ·93	21 ·43		17
3	We	12	3 ·56	12 ·63		17					16 ·06			31	We	11	5 ·87	22 ·41		18
4	Th	13	4 ·48	13 ·57		18	2	Sa	12	3 ·36	17 ·99		17	1	Th	12	6 ·83	23 ·39		19
5	Fr	14	5 ·40	14 ·51		19	3	Su	13	4 ·26	18 ·92		18	2	Fr	13	7 ·82	24 ·39		20
6	Sa	15	6 ·30	15 ·46		20	4	Mo	14	5 ·16	19 87		19	3	Sa	14	8 ·81	25 ·41		21
7	Su	16	7 ·19	16 ·38		21				6 ·07				4	Su	15	9 ·84	26 ·45		22
8	Mo	17	8 ·11	17 ·31		22	5	Tu	15	7 .99	20 ·81		20	5	Mo	16	10 ·88	27 ·52		23
			9 ·00				6	We	16	8 ·91	21 ·77		21	6	Tu	17	11 ·93	1 ·60		24
9	Tu	18	10 ·92	18 ·25		23	7	Th	17	9 ·86	22 ·74		22	7	We	18	... ...	2 ·69		25
10	We	19	11 ·83	19 ·19		24	8	Fr	18	10 ·83	23 ·73		23	8	Th	19	12 ·01	3 ·79		26
11	Th	20	12 ·76	20 ·15		25	9	Sa	19	11 ·81	24 ·75		24	9	Fr	20	13 ·10	4 ·90		27
12	Fr	21	13 ·71	21 ·11		26	10	Su	20	12 ·82	25 ·78		25	10	Sa	21	14 ·18	... ...		28
13	Sa	22	14 ·69	22 ·09		27	11	Mo	21	13 ·84	26 ·83		26	11	Su	22	A ·24	5 ·00		29
14	Su	23	A ·67	23 ·09		28	12	Tu	22	14 ·89	27 ·90		27	12	Mo	23	1 ·32	6 ·10		30
15	Mo	24	1 ·67	24 ·11		29	13	We	23	A ·94	1 ·98		28	13	Tu	24	2 ·37	7 ·19		1
16	Tu	25	2 ·70	25 ·14		30	14	Th	24	... ...	... ...		29	14	We	25	3 ·40	8 ·25		2
17	We	26	3 ·74	26 ·21		1	15	Fr	25	1 ·03	2 ·09		30	15	Th	26	4 ·41	9 ·28		3
18	Th	27	4 ·81	27 ·29		2	16	Sa	26	2 ·11	3 ·20		1	16	Fr	27	5 ·39	10 ·30		4
19	Fr	28	5 ·90	1 ·38		3	17	Su	27	3 ·20	4 ·31		2	17	Sa	28	6 ·37	11 ·31		5
							18	Mo	28	4 ·27	5 ·40		3	18	Su	29	7 ·31	12 ·29		6
							19	Tu	29	5 ·34	6 ·49		4	19	Mo	30	8 ·25	13 ·25		7
							20	We	30	6 ·40	7 ·57		5							

Siddharthi *Dhanus—Margali.* — H. 1214 *Shaban.*
Siddharthi *Makara—Tai.* — H. 1214 *Ramzan.*
Siddharthi *Kumbha—Masi.* — H. 1214 *Shawwal.*
Siddharthi *Mina—Panguni.* — H. 1214 *Zi-l-ka'da.*
Siddharthi *Mesha—Chittirai.* — H. 1214 *Zi-l-hijja.*
Raudra *Vrishabha—Vaikasi.* — H. 1215 *Muharram.*
Raudra *Mithuna—Ani.* — H. 1215 *Safar.*

Naksh :—1. Asvn. 2. Bhar. 3. Krit. 4. Rohi. 5. Mrig. 6. Ardh. 7. Punar. 8. Push. 9. Aslesh. 10. Magh. 11. P. Phal. 12. U. Phal. 13. Hasta. 14. Chit.

A. D. 1800. **Hijra 1215,** **Vikrama 1857.**
A.—Amavasya. **Kollam 976,** Commences **N. Malabar—Sept.** / **S. Malabar—Aug.** Commences **May 25.** **Bengal San 1206.**
P.—Pournami. **(N. Cycle) Prajapati.**

SOLAR reckoning.			LUNAR reckoning.				SOLAR reckoning.		LUNAR reckoning.			
Cycle Sidereal Year, Month and Day.	Week-Day English Month and Day.		Tithi Ending Moment.	Naksha tra Ending Moment.		Muhammadan Year, Month and Day.	Cycle Sidereal Year, Month and Day.	Week-Day English Month and Day.	Tithi Ending Moment.	Nakshatra Ending Moment.		Muhammadan Year, Month and Day.
	July							**Sep.**				
							19	Mo 1				
							20	Tu 2				
							21	We 3				
							22	Th 4				
							23	Fr 5				
							24	Sa 6				
							25	Su 7				
							26	Mo 8				
							27	Tu 9				
							28	We 10				
							29	Th 11				
							30	Fr 12				
							31	Sa 13				
							1	Su 14				
							2	Mo 15				
							3	Tu 16				
							4	We 17				
							5	Th 18				
							6	Fr 19				
							7	Sa 20				
							8	Su 21				
							9	Mo 22				
							10	Tu 23				
							11	We 24				
							12	Th 25				
							13	Fr 26				
							14	Sa 27				
							15	Su 28				
							16	Mo 29				
							17	Tu 30				
	Aug.							**Oct.**				
							18	We 1				
							19	Th ○ 2				
							20	Fr 3				
							21	Sa 4				
							22	Su 5				
							23	Mo 6				
							24	Tu 7				
							25	We 8				
							26	Th 9				
							27	Fr 10				
							28	Sa 11				
							29	Su 12				
							30	Mo 13				
							31	Tu 14				
							1	We 15				
							2	Th 16				
							3	Fr 17				
							4	Sa 18				
							5	Su 19				
							6	Mo 20				
							7	Tu 21				
							8	We 22				
							9	Th 23				
							10	Fr 24				
							11	Sa 25				
							12	Su 26				
							13	Mo 27				
							14	Tu 28				
							15	We 29				
							16	Th 30				
							17	Fr 31				

Raudra *Karkata—Idi.*							Raudra *Kanya—Purattasi.*					
20	Tu	1	9 ·17	14 ·20		8	19	Mo	1	13 ·41	22 ·40	
21	We	2	10 ·08	15 ·14		9	20	Tu	2	14 ·35	23 ·37	
22	Th	3	11 ·97				21	We	3	P 37	24 ·35	
23	Fr	4	12 ·87	16 ·09		10	22	Th	4	1 ·29	25 ·37	
24	Sa	5	13 ·77	17 ·01		11	23	Fr	5	2 ·30	26 ·39	
25	Su	6	14 ·66	18 ·95		12	24	Sa	6	3 ·31	27 ·44	
26	Mo	7	P ·58	19 ·88			25	Su	7	4 ·35	1 ·51	
27	Tu	8	1 ·49	20 ·82			26	Mo	8	5 ·40	2 ·59	
28	We	9	2 ·41	21 ·78			27	Tu	9	6 ·47	3 ·70	
29	Th	10	3 ·35	22 ·73			28	We	10	7 ·56	4 ·81	
30	Fr	11	4 ·31	23 ·71			29	Th	11	8 ·64	5 ·91	
31	Sa	12	5 ·29	24 ·71			30	Fr	12	9 ·73	... ...	
32	Su	13	6 ·29	25 ·72			31	Sa	13	10 ·80	6 ·01	
1	Mo	14	7 ·32	26 ·76			1	Su	14	11 ·86	7 ·10	
2	Tu	15	8 ·36	27 ·81			2	Mo	15	12 ·89	8 ·18	
3	We	16	9 ·41	1 ·90			3	Tu	16	13 ·92	9 ·24	
4	Th	17	10 ·49	... ...			4	We	17	14 ·90	10 ·27	
5	Fr	18	11 ·58	3 ·10			5	Th	18	A ·87	11 ·28	
6	Sa	19	12 ·64	4 ·20			6	Fr	19	1 ·84	12 ·27	
7	Su	20	13 ·71	5 ·31			7	Sa	20	2 ·76	13 ·25	
8	Mo	21	14 ·80	6 ·41			8	Su	21	3 ·69	14 ·22	
9	Tu	22	A ·85	7 ·49			9	Mo	22	4 ·59	15 ·16	
10	We	23	1 ·88	8 ·56			10	Tu	23	5 ·50	16 ·10	
11	Th	24	2 ·89	9 ·60			11	We	24	6 ·41	17 ·03	
12	Fr	25	3 ·88	10 ·62			12	Th	25	7 ·30	18 ·96	
13	Sa	26	4 ·84	11 ·63			13	Fr	26	8 ·20	19 ·90	
14	Su	27	5 ·79	12 ·62			14	Sa	27	9 ·10	20 ·84	
15	Mo	28	6 ·73	13 ·59			15	Su	28	10 ·03	21 ·78	
16	Tu	29	7 ·66	14 ·54						11 ·95		
17	We	30	8 ·56	15 ·49			16	Mo	29	12 ·90	22 ·73	
18	Th	31	9 ·46	16 ·43			17	Tu	30	13 ·85	23 ·69	
			10 ·37	17 ·35							24 ·69	

Raudra *Simha—Arani.*							Raudra *Tula—Aippasi*					
19	Fr	1	11 ·25	18 ·28		10	18	We	1	14 ·83	25 ·69	
20	Sa	2	12 ·15	19 ·22		11	19	Th ○	2	P ·83	26 ·71	
21	Su	3	13 ·06	20 ·15		12	20	Fr	3	1 ·85	27 ·75	
22	Mo	4	14 ·98				21	Sa	4	2 ·90	1 ·81	
23	Tu	5	P ·90	21 ·11		13	22	Su	5	3 ·95	2 ·90	
24	We	6	1 ·83	22 ·07		14	23	Mo	6	... ...	... ...	
25	Th	7	2 ·80	23 ·04		15	24	Tu	7	4 ·03	3 ·00	
26	Fr	8	3 ·78	24 ·03		16	25	We	8	5 ·11	4 ·10	
27	Sa	9	4 ·78	25 ·04		17	26	Th	9	6 ·20	5 ·21	
28	Su	10	5 ·79	26 ·07		18	27	Fr	10	7 ·29	6 ·31	
29	Mo	11	6 ·83	27 ·13		19	28	Sa	11	8 ·36	7 ·41	
30	Tu	12	7 ·90	1 ·20		20	29	Su	12	9 ·42	8 ·49	
31	We	13	8 ·97	2 ·29		21	30	Mo	13	10 ·45	9 ·55	
1	Th	14	... ...	3 ·39		22	31	Tu	14	11 ·48	10 ·59	
2	Fr	15	9 ·05	4 ·51		23	1	We	15	12 ·46	11 ·60	
3	Sa	16	10 ·13	5 ·61		24	2	Th	16	13 ·44	12 ·60	
4	Su	17	11 ·22	6 ·71		25	3	Fr	17	14 ·40	13 ·59	
5	Mo	18	12 ·28	7 ·80		26	4	Sa	18	A ·33	14 ·55	
6	Tu	19	13 ·33	8 ·86		27	5	Su	19	1 ·26	15 ·50	
7	We	20	14 ·36	9 ·92		28	6	Mo	20	2 ·16	16 ·44	
8	Th	21	A ·38	10 ·95		29	7	Tu	21	3 ·07	17 ·37	
9	Fr	22	1 ·37	11 ·96		30	8	We	22	4 ·98		
10	Sa	23	2 ·34	12 ·95		1	9	Th	23	5 ·88	18 ·31	
11	Su	24	3 ·31	13 ·92		2	10	Fr	24	6 ·78	19 ·24	
12	Mo	25	4 ·23	14 ·88		3	11	Sa	25	7 ·68	20 ·17	
13	Tu	26	5 ·16	15 ·83		4	12	Su	26	8 ·61	21 ·11	
14	We	27	6 ·06	16 ·76		5	13	Mo	27	9 ·53	22 ·06	
15	Th	28	7 ·96				14	Tu	28	10 ·48	23 ·03	
16	Fr	29	8 ·87	17 ·69		6	15	We	29	11 ·43	24 ·01	
17	Sa	30	9 ·76	18 ·62		7	16	Th	30	12 ·42	25 ·01	
18	Su	31	10 ·67	19 ·55		8	17	Fr	31	13 ·43	26 .02	
			11 ·56	20 ·50		9				14 ·45	27 ·06	
			12 ·49	21 ·44		10						

Raudra *Vrischika—Kartigai.*							Raudra *Dhanus—Margali.*					
18	Sa	1	P ·49	1 ·13		13	19	Mo	1	P ·26	4 ·70	
19	Su	2	1 ·55	2 ·21		14	20	Tu	2	1 ·34	5 ·80	
20	Mo	3	2 ·63	3 ·30		15	21	We	3	2 ·43	6 ·92	
21	Tu	4	3 ·70	4 ·40		16	22	Th	4	3 ·51	... ...	
22	We	5	4 ·81	5 ·51		17	23	Fr	5	4 ·59	7 ·02	
23	Th	6	5 ·89	6 ·61		18	24	Sa	6	5 ·65	8 ·10	
24	Fr	7	6 ·96	7 ·72		19	25	Su	7	6 ·69	9 ·17	
25	Sa	8	... ...	8 ·80		20	26	Mo	8	7 ·71	10 ·22	
26	Su	9	7 ·01	9 ·86		21	27	Tu	9	8 ·70	11 ·25	
27	Mo	10	8 ·04	10 ·90		22	28	We	10	9 ·67	12 ·26	
28	Tu	11	9 ·08	11 ·92		23	29	Th	11	10 ·62	13 ·24	
29	We	12	10 ·06	12 ·93		24	30	Fr	12	11 ·57	14 ·21	
30	Th	13	11 ·04	13 ·92		25	1	Sa	13	12 ·48	15 ·17	
1	Fr	14	12 ·99	14 ·88		26	2	Su	14	13 ·40	16 ·12	
2	Sa	15	13 ·94	15 ·83		27	3	Mo	15	14 ·31	17 ·06	
3	Su	16	14 ·86	16 ·77		28					18 ·99	
4	Mo	17	A ·78	17 ·71		29	4	Tu	16	A ·22	19 ·92	
5	Tu	18	1 ·68	18 ·65		30	5	We	17	1 ·11	20 ·85	
6	We	19	2 ·58	19 ·58		1	6	Th	18	2 ·02	21 ·79	
7	Th	20	3 ·49	20 ·51		2				3 ·93		
8	Fr	21	4 ·39	21 ·45		3	7	Fr	19	4 ·84	22 ·74	
9	Sa	22	5 ·30	22 ·40		4	8	Sa	20	5 ·78	23 ·69	
10	Su	23	6 ·22	23 ·36		5	9	Su	21	6 ·72	24 ·66	
11	Mo	24	7 ·15	24 ·34		6	10	Mo	22	7 ·70	25 ·65	
12	Tu	25	8 ·09	25 ·33		7	11	Tu	23	8 ·68	26 ·66	
13	We	26	9 ·05	26 ·34		8	12	We	24	9 ·69	27 ·70	
14	Th	27	10 .04	27 ·38		9	13	Th	25	10 ·72	1 ·75	
15	Fr	28	11 ·04	1 ·44		10	14	Fr	26	11 ·76	2 ·81	
16	Sa	29	12 ·08	2 ·51		11	15	Sa	27	12 ·84	3 ·90	
17	Su	30	13 ·11	3 ·60		12	16	Su	28	13 ·91	... ...	
18			14 ·18			13	17	Mo	29	... ...	4 ·00	
							18	Tu	30	14 ·00	5 ·11	
							19	We	31	P ·09	6 ·22	

						H. 1215 *Safar.*	8					
							9					
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						H. 1215 *Jumadal-akhir.*	1					
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						H. 1215 *Rabi-ul-awwal.*	10					
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						H. 1215 *Rabi-ul-akhir.*	30					
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						H. 1215 *Jumadal-akhir.*	12					
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						H. 1215 *Rajab.*	14					
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						H. 1215 *Shaban.*	1					
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15. Svati. 16. Visak. 17. Anur. 18. Jyesh. 19. Mula. 20. P. Ash. 21. U. Ash. 22. Sravn. 23. Dani. 24. Satab. 25. P. Bhad. 26. U. Bhad. 27. Rev.

A. D. 1801.
Solar Eclipse. ●
Lunar Eclipse. ○

Mesha Sankranti. (Commencement of Indian Sidereal Year)
(Surya Sid.) April 11·00. **Saka 1723.** **Kaliyuga 4902.**
(Arya Sid.) April 10·90. **(S. Cycle) Durmati.**

SOLAR reckoning. Cyclic Sidereal Year, Month and Day.	SOLAR reckoning. Week-Day English Month and Day.	LUNAR reckoning. Tithi Ending Moment.	LUNAR reckoning. Nakshatra Ending Moment.	LUNAR reckoning. Muhammadan Year, Month and Day.
Raudra *Dhanus—Margah* 20	**Jan.** Th 1	a 1 18	7 32	15
21	Fr 2	2 24	8 41	16
22	Sa 3	3 29	9 48	17
23	Su 4	4 33	10 ·54	18
24	Mo 5	5 35	11 57	19
25	Tu 6	6 34	12 58	20
26	We 7	7 31	13 57	21
27	Th 8	8 28	14 ·54	22
28	Fr 9	9 21	15 ·51	23
29	Sa 10	10 12	16 46	24
1	Su 11	11 05 ~ 12 95	17 39	25
2	Mo 12	13 85	18 33	26
3	Tu 13	14 76	19 26	27
4	We 14	—A 67	20 19	28
5	Th 15	1 57	21 13	—29
6	Fr 16	2 48	22 07	1
7	Sa 17	3 43	23 ·02 ~ 24 99	2
8	Su 18	4 37	25 98	3
9	Mo 19	5 ·34	26 99	4
10	Tu 20	6 ·33	... ...	5
11	We 21	*Sukla* 7 ·34	27 ·01	6
12	Th 22	8 36	1 05	7
13	Fr 23	9 41	2 12	8
Raudra *Makara—Tau* 14	Sa 24	10 ·49	3 20	9
15	Su 25	11 ·56	4 31	10
16	Mo 26	12 65	5 ·41	11
17	Tu 27	13 74	6 52	12
18	We 28	14 83	7 62	13
19	Th 29	**Magha** P 89	8 71	14
20	Fr 30	1 95	9 80	15
21	Sa 31	2 ·98	10 85	16
	Feb.			
22	Su 1	3 99	11 89	17
23	Mo 2	4 98	12 90	18
24	Tu 3	5 95	13 90	19
25	We 4	6 92	14 88	20
26	Th 5	7 84	15 84	21
27	Fr 6	*Bahula* 8 76	16 79	22
28	Sa 7	9 67	17 73	23
29	Su 8	10 59	18 66	24
—30	Mo 9	11 48	19 59	25
1	Tu 10	12 38	20 53	26
2	We 11	13 ·29	21 47	27
3	Th 12	14 19	22 41	28
4	Fr 13	—A 12	23 36	29
5	Sa 14	1 05	24 32	—30
Raudra *Kumbha—Masa* 6	Su 15	2 ·01 ~ 3 97	25 ·31	1
7	Mo 16	4 96	26 31	2
8	Tu 17	5 97	27 ·33	3
9	We 18	*Sukla*	1 36	4
10	Th 19	6 00	2 42	5
11	Fr 20	7 ·05	3 ·51	6
12	Sa 21	8 ·11	4 ·61	7
13	Su 22	9 ·19	5 ·71	8
14	Mo 23	**Phalguna** 10 29	6 ·81	9
15	Tu 24	11 36	7 ·92	10
16	We 25	12 ·45	... ...	11
17	Th 26	13 51	8 02	12
18	Fr 27	14 ·57	9 ·10	13
19	Sa 28	P 60	10 ·16	14

SOLAR reckoning. Cyclic Sidereal Year, Month and Day	SOLAR reckoning. Week-Day English Month and Day.	LUNAR reckoning. Tithi Ending Moment.	LUNAR reckoning. Nakshatra Ending Moment	LUNAR reckoning. Muhammadan Year, Month and Day.
Raudra *Kumbha—Mina* 20	**March** Su 1	a 1 62	11 20	15
21	Mo 2	2 60	12 22	16
22	Tu 3	3 58	13 ·23	17
23	We 4	4 52	14 21	18
24	Th 5	5 45	15 18	19
25	Fr 6	6 37	16 ·13	20
26	Sa 7	7 28	17 ·07	21
27	Su 8	*Bahula* 8 19	18 00 ~ 19 94	22
28	Mo 9	9 08	20 87	23
29	Tu 10	10 00 ~ 11 90	21 80	24
—30	We 11	12 80	22 ·74	25
1	Th 12	13 72	23 69	26
2	Fr 13	14 65	24 66	27
3	Sa 14	—A 61	25 64	28
4	Su 15	1 57	26 63	—29
5	Mo 16	2 56	27 64	1
6	Tu 17	3 56	1 68	2
7	We 18	4 59	2 74	3
8	Th 19	5 64	3 81	4
9	Fr 20	6 72	4 90	5
10	Sa 21	*Sukla* 7 80	.. ...	6
11	Su 22	8 ·88	5 01	7
12	Mo 23	9 ·98	6 11	8
Raudra *Mina—Pangun* 13	Tu 24	... ...	7 23	9
14	We 25	10 05	8 32	10
15	Th 26	11 11	9 41	11
16	Fr 27	**Chaitra** 12 16	10 47	12
17	Sa 28	13 19	11 52	13
18	Su 29	14 20	12 54	14
19	Mo ○ 30	P 18	13 56	15
20	Tu 31	1 15	14 54	16
	April			
21	We 1	2 09	15 51	17
22	Th 2	3 04 ~ 4 95	16 46	18
23	Fr 3	5 86	17 41	19
24	Sa 4	6 77	18 35	20
25	Su 5	7 65	19 28	21
26	Mo 6	*Bahula* 8 56	20 21	22
27	Tu 7	9 47	21 14	23
28	We 8	10 38	22 08	24
29	Th 9	11 29	23 03 ~ 24 99	25
—30	Fr 10	12 21	25 96	26
1	Sa 11	13 17	26 95	27
2	Su 12	14 13	27 ·96	28
3	Mo 13	—A 12	... ...	29
4	Tu 14	1 12	1 00	—30
5	We 15	2 ·16	2 05	1
6	Th 16	3 20	3 ·12	2
7	Fr 17	4 27	4 21	3
8	Sa 18	*Sukla* 5 35	5 30	4
9	Su 19	6 43	6 41	5
Durmati *Mesha—Chittrai* 10	Mo 20	7 53	7 53	6
11	Tu 21	8 60	8 ·63	7
12	We 22	9 66	9 71	8
13	Th 23	10 70	10 ·78	9
14	Fr 24	11 72	11 ·83	10
15	Sa 25	**Vaisakha** 12 74	12 ·87	11
16	Su 26	13 72	13 88	12
17	Mo 27	14 70	14 ·87	13
18	Tu 28	P 63	15 84	14
19	We 29	1 ·57	16 80	15
20	Th 30	2 48	17 75	16

SOLAR reckoning. Cyclic Sidereal Year Month and Day.	SOLAR reckoning. Week-Day English Month and Day.	LUNAR reckoning. Tithi Ending Moment.	LUNAR reckoning. Nakshatra Ending Moment.	LUNAR reckoning. Muhammadan Year, Month and Day.
	May			
Durmati *Mesha—Chittrai* 21	Fr 1	3 40	18 69	17
22	Sa 2	4 30	19 62	18
23	Su 3	5 19	20 55	19
24	Mo 4	6 10	21 48	20
25	Tu 5	7 00 ~ 8 91	22 42	21
26	We 6	9 81	23 37	22
27	Th 7	10 75	24 32	23
28	Fr 8	11 70	25 29	24
29	Sa 9	12 67	26 27	25
30	Su 10	13 65	27 29	26
—31	Mo 11	14 64	1 31	27
1	Tu 12	—A 68	2 36	28
2	We 13	1 72	3 42	—29
3	Th 14	2 ·79	4 51	1
4	Fr 15	3 ·86	5 60	2
5	Sa 16	4 95	6 72	3
6	Su 17	... ...	7 82	4
7	Mo 18	*Sukla* 5 03	8 93	5
8	Tu 19	6 10	... ...	6
9	We 20	7 18	9 02	7
10	Th 21	8 22	10 09	8
11	Fr 22	9 24	11 15	9
12	Sa 23	10 25	12 19	10
13	Su 24	11 24	13 20	11
14	Mo 25	12 21	14 ·19	12
15	Tu 26	13 15	15 17	13
16	We 27	14 07 ~ P 99	16 14	14
17	Th 28	1 91	17 09	15
18	Fr 29	2 ·81	18 03 ~ 19 96	16
19	Sa 30	3 70	20 89	17
20	Su 31	4 60	21 83	18
	June			
21	Mo 1	*Bahula* 5 ·49	22 76	19
22	Tu 2	6 ·40	23 70	20
23	We 3	7 ·32	24 65	21
24	Th 4	8 26	25 62	22
25	Fr 5	9 ·19	26 60	23
26	Sa 6	10 16	27 61	24
27	Su 7	11 14	1 63	25
28	Mo 8	12 ·14	2 67	26
29	Tu 9	13 15	3 73	27
30	We 10	14 19	4 81	28
—31	Th 11	—A 28	5 90	29
1	Fr 12	1 34	... ...	—30
2	Sa 13	2 ·43	6 02	1
3	Su 14	3 51	7 12	2
4	Mo 15	*Sukla* 4 58	8 23	3
5	Tu 16	5 65	9 32	4
6	We 17	6 70	10 41	5
7	Th 18	7 73	11 47	6
8	Fr 19	8 73	12 ·50	7
9	Sa 20	9 72	13 52	8
10	Su 21	10 69	14 52	9
11	Mo 22	11 .63	15 51	10
12	Tu 23	12 56	16 47	11
13	We 24	13 49	17 42	12
14	Th 25	14 39	18 36	13
15	Fr 26	P 29	19 30	14
16	Sa 27	1 19	20 24	15
17	Su 28	2 08 ~ 3 98	21 17	16
18	Mo 29	4 89	22 ·10	17
19	Tu 30	5 81	23 04 ~ 24 98	18

SOLAR reckoning. Cyclic Sidereal Year, Month and Day.	LUNAR reckoning. Tithi Ending Moment.	LUNAR reckoning. Nakshatra Ending Moment.	LUNAR reckoning. Muhammadan Year, Month and Day.
Durmati *Vrishabha—Jyeshtha* 15	13 15	15 17	H 1215 *Zi-l-hijja* 13
16	14 07 ~ P 99	16 14	14
17	1 91	17 09	15
18	2 ·81	18 03 ~ 19 96	16
19	3 70	20 89	17
20	4 60	21 83	H 1216 *Muharram* 18
21	*Bahula* 5 ·49	22 76	19
22	6 ·40	23 70	20
23	7 ·32	24 65	21
24	8 26	25 62	22
25	9 ·19	26 60	23
26	10 16	27 61	24
27	11 14	1 63	25
28	12 ·14	2 67	26
29	13 15	3 73	27
30	14 19	4 81	28
—31	—A 28	5 90	29
1	1 34	... ...	—30
2	2 ·43	6 02	1
3	3 51	7 12	2
4	4 58	8 23	3
5	5 65	9 32	4
6	6 70	10 41	5
7	7 73	11 47	6
8	8 73	12 ·50	7
9	9 72	13 52	8
10	10 69	14 52	9
11	11 .63	15 51	10
12	12 56	16 47	11
13	13 49	17 42	12
14	14 39	18 36	13
15	P 29	19 30	14
16	1 19	20 24	15
17	2 08 ~ 3 98	21 17	16
18	4 89	22 ·10	17
19	5 81	23 04 ~ 24 98	H 1216 *Safar* 18

Naksh :—1 Asvn. 2 Bhar. 3 Krit. 4 Rohi 5. Mrig 6. Ardh 7. Punar 8. Push 9 Aslesh 10 Magh 11 P Phal. 12 U Phal. 13 Hasta 14 Chit.

A. D. 1898. **Mesha Sankranti** (Commencement of Indian Sidereal Year).
Solar Eclipse. ● **(Surya Sid.) April 12·10.** **Saka 1820.** **Kaliyuga 4999.**
Lunar Eclipse. ○ **(Arya Sid.) April 11·99.** **(S. Cycle) Vilamba.**

SOLAR reckoning.			LUNAR reckoning.				SOLAR reckoning.			LUNAR reckoning.				SOLAR reckoning.			LUNAR reckoning.			
Cyclic Sidereal Year, Month and Day.	Week-Day	English Month and Day.	Tithi	Ending Moment.	Nakshatra	Ending Moment.	Muhammadan Year, Month and Day.	Cyclic Sidereal Year, Month and Day.	Week-Day	English Month and Day.	Tithi	Ending Moment.	Nakshatra	Ending Moment.	Muhammadan Year, Month and Day.	Cyclic Sidereal Year, Month and Day.	Week-Day	English Month and Day.	Tithi	Ending Moment.	Nakshatra	Ending Moment.	Muhammadan Year, Month and Day.
		Jan.								**March**								**May**					
Hemalamba *Dhanus—Margah.* 19	Sa	1	*Sukla* 9	·49	...	...	7	19	Tu	1	*Sukla* 9	·08	5	·02	7	20	Su	1	*Sukla* 10	·46	10	·03	9
20	Su	2	10	·54	1	·01	8	20	We	2	10	·16	6	·13	8	21	Mo	2	11	·45	11	·06	10
21	Mo	3	11	·62	2	·10	9	21	Th	3	11	·23	7	·22	9	22	Tu	3	12	·43	12	·08	11
22	Tu	4	12	·70	3	·20	10	22	Fr	4	12	·28	8	·30	10	23	We	4	13	·38	13	·07	12
23	We	5	13	·79	4	·31	11	23	Sa	5	12	·32	9	·36	11	24	Th	5	14	·32	14	·04	13
24	Th	6	14	·88	5	·42	12	24	Su	6	13	·34	10	·40	12	25	Fr	6	P	·24	15	·00	14
25	Fr ○	7	P	·96	6	·52	13	25	Mo	7	14	·35	11	·42	13	26	Sa	7	1	·16	16	·95	15
26	Sa	8	...	...	7	·61	14	26	Tu	8	P	·33	12	·43	14	27	Su	8	2	·07	17	·89	16
27	Su	9	1	·02	8	·68	15	27	We	9	1	·28	13	·41	15				3	·97	18	·82	17
28	Mo	10	2	·07	9	·74	16	28	Th	10	2	·22	14	·38	16	28	Mo	9	4	·87	19	·75	18
29	Tu	11	3	·10	10	·77	17	29	Fr	11	3	·15	15	·33	17	29	Tu	10	5	·76	20	·68	19
30	We	12	4	·09	11	·78	18	30	Sa	12	4	·07	16	·27	18	30	We	11	6	·66	21	·62	20
31	Th	13	5	·08	12	·77	19				5	·98				31	Th	12	7	·57	22	·57	21
Feb. 1	Fr	14	6	·04	13	·74	20	1	Su	13	6	·88	17	·21	20								
			7	·99												Vilamba *Mesha—Chittirai.* 1	Fr	13	8	·50	23	·52	22
2	Sa	15	8	·93	14	·71	21	2	Mo	14	7	·78	18	·14	21	2	Sa	14	9	·44	24	·49	23
3	Su	16	9	·85	15	·66	22	3	Tu	15	8	·68	19	·07	22	3	Su	15	10	·39	25	·47	24
4	Mo	17	10	·75	16	·60	23	4	We	16	9	·58	20	·00	23	4	Mo	16	11	·37	26	·49	25
5	Tu	18	11	·65	17	·53	24	5	Th	17	10	·49	21	·94	24	5	Tu	17	12	·36	27	·52	26
6	We	19	12	·55	18	·46	25	6	Fr	18	11	·42	22	·89	25	6	We	18	13	·38	1	·56	27
7	Th	20	13	·45	19	·39	26	7	Sa	19	12	·36	23	·86	26	7	Th	19	14	·42	2	·62	28
8	Fr	21	14	·36	20	·33	27	8	Su	20	13	·32	24	·84	27	8	Fr	20	A	·47	3	·70	29
9	Sa ●	22	A	·28	21	·27	28	9	Mo	21	14	·32	25	·83	28	9	Sa	21	1	·54	4	·80	30
10	Su	23	1	·21	22	·23	29	10	Tu	22	A	·30	26	·84	29	10	Su	22	2	·62	5	·91	1
11	Mo	24	2	·15	23	·20	1	11	We	23	1	·30	27	·88	1	11	Mo	23	3	·71	...	...	2
Hemalamba *Makara—Tai.* 12	Tu	25	3	·11	24	·18	2	12	Th	24	2	·32	1	·94	2	12	Tu	24	4	·79	6	·02	3
13	We	26	4	·09	25	·19	3	13	Fr	25	3	·36	...	...	3	13	We	25	5	·86	7	·12	4
14	Th	27	5	·08	26	·21	4	14	Sa	26	4	·42	2	·01	4	14	Th	26	6	·91	8	·21	5
15	Fr	28	6	·10	27	·25	5	15	Su	27	5	·49	3	·10	5	15	Fr	27	7	·94	9	·29	6
16	Sa	29	7	·14	1	·32	6	16	Mo	28	6	·57	4	·20	6	16	Sa	28	8	·96	10	·35	7
17	Su	30	8	·20	2	·40	7	17	Tu	29	7	·66	5	·31	7	17	Su	29	9	·95	11	·39	8
18	Mo	31	9	·28	3	·50	8	18	We	30	8	·74	6	·42	8	18	Mo	30	10	·93	12	·40	9
			Sukla					19	Th	31	9	·81	7	·52	9	19	Tu	31	11	·89	13	·40	10
		Feb.								**April**								**June**					
											Sukla												
	Tu	1	10	·37	4	·61	9	20	Fr	1	10	·87	8	·60	9	20	We	1	12	·83	14	·38	11
	We	2	11	·45	5	·72	10	21	Sa	2	11	·91	9	·67	10	21	Th	2	13	·75	15	·34	12
	Th	3	12	·53	6	·82	11	22	Su	3	12	·93	10	·72	11	22	Fr	3	14	·66	16	·29	13
	Fr	4	13	·61	7	·91	12	23	Mo	4	13	·92	11	·75	12	23	Sa	4	P	·56	17	·23	14
	Sa	5	14	·67	8	·99	13	24	Tu	5	14	·89	12	·76	13	24	Su	5	1	·46	18	·16	15
	Su	6	P	·71	...	...	14	25	We	6	P	·85	13	·74	14	25	Mo	6	2	·36	19	·09	16
	Mo	7	1	·74	9	·05	15	26	Th	7	1	·79	14	·71	15						20	·02	
	Tu	8	2	·74	10	·09	16	27	Fr	8	2	·72	15	·66	16	26	Tu	7	3	·26	21	·96	17
	We	9	3	·72	11	·10	17	28	Sa	9	3	·63	16	·61	17	27	We	8	4	·16	22	·90	18
	Th	10	4	·68	12	·10	18	29	Su	10	4	·54	17	·55	18	28	Th	9	5	·07	23	·85	19
	Fr	11	5	·62	13	·08	19	30	Mo	11	5	·44	18	·48	19				6	·00			
					14	·04										29	Fr	10	7	·94	24	·82	20
	Sa	12	6	·55	15	·99	20	1	Tu	12	6	·34	19	·41	20								
	Su	13	7	·47	16	·93	21	2	We	13	7	·24	20	·34	21	30	Sa	11	8	·89	25	·81	21
	Mo	14	8	·38	17	·87	22	3	Th	14	8	·14	21	·28	22	31	Su	12	9	·86	26	·81	22
	Tu	15	9	·29	18	·80	23				9	·05				1	Mo	13	10	·84	27	·83	23
	We	16	10	·19	19	·73	24	4	Fr	15	10	·98	22	·23	23	2	Tu	14	11	·86	1	·87	24
			11	·09												3	We	15	12	·89	2	·93	25
Hemalamba *Kumbha—Masi.* 7	Th	17	12	·99	20	·67	25	5	Sa	16	11	·92	23	·19	24	4	Th	16	13	·94	...	...	26
8	Fr	18	13	·90	21	·61	26	6	Su	17	12	·88	24	·16	25	5	Fr	17	...	...	3	·01	27
9	Sa	19	14	·82	22	·56	27	7	Mo	18	13	·85	25	·15	26	6	Sa	18	14	·01	4	·11	28
10	Su	20	A	·76	23	·52	28	8	Tu	19	14	·85	26	·16	27	7	Su	19	A	·09	5	·21	29
11	Mo	21	1	·73	24	·51	29	9	We	20	A	·86	27	·20	28	8	Mo	20	1	·18	6	·32	30
12	Tu	22	2	·71	25	·51	30	10	Th	21	1	·90	1	·25	29	9	Tu	21	2	·26	7	·42	1
13	We	23	3	·71	26	·53		11	Fr	22	2	·96	2	·32	30	10	We	22	3	·33	8	·52	2
14	Th	24	4	·73	27	·56		12	Sa	23	*Sukla*		3	·40		11	Th	23	4	·38	9	·61	3
15	Fr	25	5	·77	1	·62		13	Su	24	...	...	4	·50		12	Fr	24	5	·42	10	·67	4
16	Sa	26	6	·82	2	·70		14	Mo	25	4	·12	5	·61		13	Sa	25	6	·44	11	·70	5
17	Su	27	7	·90	3	·80		15	Tu	26	5	·21	6	·72		14	Su	26	7	·44	12	·72	6
18	Mo	28	8	·99	4	·91		16	We	27	6	·29	7	·82		15	Mo	27	8	·41	13	·72	7
								17	Th	28	7	·35	8	·91		16	Tu	28	9	·37	14	·70	8
								18	Fr	29	8	·40	9	·98		17	We	29	10	·31	15	·67	9
								19	Sa	30	9	·44	...	...		18	Th	30	11	·24	16	·62	10

Hemalamba *Mina—Pangun.*								Vilamba *Mesha—Chittirai.*								Vilamba *Vrishabha—Vaikasi.*							
19	Th	31	*Sukla* 9	·81	7	·52	8	6	Su	17	12	·88	24	·16	25	4	Th	16	13	·94	...	...	26
								7	Mo	18	13	·85	25	·15	26	5	Fr	17	...	...	3	·01	27
								8	Tu	19	14	·85	26	·16	27	6	Sa	18	14	·01	4	·11	28
								9	We	20	A	·86	27	·20	28	7	Su	19	A	·09	5	·21	29
								10	Th	21	1	·90	1	·25	29	8	Mo	20	1	·18	6	·32	30
								11	Fr	22	2	·96	2	·32	30	9	Tu	21	2	·26	7	·42	1
								12	Sa	23	*Sukla*		3	·40		10	We	22	3	·33	8	·52	2
								13	Su	24	...	...	4	·50		11	Th	23	4	·38	9	·61	3
								14	Mo	25	4	·12	5	·61		12	Fr	24	5	·42	10	·67	4
								15	Tu	26	5	·21	6	·72		13	Sa	25	6	·44	11	·70	5
								16	We	27	6	·29	7	·82		14	Su	26	7	·44	12	·72	6
								17	Th	28	7	·35	8	·91		15	Mo	27	8	·41	13	·72	7
								18	Fr	29	8	·40	9	·98		16	Tu	28	9	·37	14	·70	8
								19	Sa	30	9	·44	...	...		17	We	29	10	·31	15	·67	9
											Sukla					18	Th	30	11	·24	16	·62	10
			Phalg.								**Vaisakha**								**Ashadha**				

			Sukla																				
	Th	31	9	·81	7	·52	8	6	Su	17	12	·88	24	·16	25	4	Th	16	13	·94	...	...	26
								7	Mo	18	13	·85	25	·15	26	5	Fr	17	...	...	3	·01	27
								8	Tu	19	14	·85	26	·16	27	6	Sa	18	14	·01	4	·11	28
								9	We	20	A	·86	27	·20	28	7	Su	19	A	·09	5	·21	29
								10	Th	21	1	·90	1	·25	29	8	Mo	20	1	·18	6	·32	30
								11	Fr	22	2	·96	2	·32	30	9	Tu	21	2	·26	7	·42	1
								12	Sa	23	*Sukla*		3	·40		10	We	22	3	·33	8	·52	2
								13	Su	24	...	...	4	·50		11	Th	23	4	·38	9	·61	3
								14	Mo	25	4	·12	5	·61		12	Fr	24	5	·42	10	·67	4
								15	Tu	26	5	·21	6	·72		13	Sa	25	6	·44	11	·70	5
								16	We	27	6	·29	7	·82		14	Su	26	7	·44	12	·72	6
								17	Th	28	7	·35	8	·91		15	Mo	27	8	·41	13	·72	7
								18	Fr	29	8	·40	9	·98		16	Tu	28	9	·37	14	·70	8
								19	Sa	30	9	·44	...	...		17	We	29	10	·31	15	·67	9
																18	Th	30	11	·24	16	·62	10

A. D. 1898. **Kollam 1074,** Commences { **N. Malabar—Sept.** / **S. Malabar—Aug.** **Hijra 1316,** Commences, **May 22.** **Vikrama 1955.** **Bengal San 1304.** **(N. Cycle) Sadharana.**

A.—Amavasya. **P.—Paurnami.**

SOLAR reckoning.		LUNAR reckoning.				SOLAR reckoning.		LUNAR reckoning.				SOLAR reckoning.		LUNAR reckoning.			
Cyclic Sidereal Year, Month and Day.	Week-Day English Month and Day.	Tithi Ending Moment.		Nakshatra Ending Moment.		Muhammadan Year, Month and Day.	Cyclic Sidereal Year, Month and Day.	Week-Day English Month and Day.	Tithi Ending Moment.		Nakshatra Ending Moment.		Muhammadan Year, Month and Day.	Cyclic Sidereal Year, Month and Day.	Week-Day English Month and Day.	Tithi Ending Moment.		Nakshatra Ending Moment.		Muhammadan Year, Month and Day.
	July							**Sep.**							**Nov.**					
19	Fr 1	12	·15	17	·56	11	18	Th 1	1	·41	25	·79	14	17	Tu 1	3	·56	4	·62	16
20	Sa 2	13	·05	18	·50	12	19	Fr 2	2	·36	26	·77	15	18	We 2	4	·63	5	·72	17
21	Su ○ 3	14	·95	19	·44	13	20	Sa 3	3	·33	27	·78	16	19	Th 3	5	·71	6	82	18
22	Mo 4	☽	85	20	·37	14	21	Su 4	4	32	1	·81	17	20	Fr 4	6	·80	7	·93	19
23	Tu 5	1	·74	21	·30	15	22	Mo 5	5	·33	2	·86	18	21	Sa 5	7	·89	...	...	20
24	We 6	2	64	22	·24	16	23	Tu 6	6	·36	3	·93	19	22	Su 6	8	·97	8	·03	21
25	Th 7	3	·55	23	·19	17	24	We 7	7	·41	...	...	20	23	Mo 7	...	...	9	·13	22
26	Fr 8	4	·47	24	·15	18	25	Th 8	8	·48	4	·01	21	24	Tu 8	9	·03	10	·22	23
27	Sa 9	5	·41	25	·13	19	26	Fr 9	9	·56	5	·11	22	25	We 9	10	·08	11	·28	24
28	Su 10	6	·36	26	·13	20	27	Sa 10	10	·64	6	·22	23	26	Th 10	11	·11	12	·32	25
29	Mo 11	7	·33	27	·14	21	28	Su 11	11	·73	7	·33	24	27	Fr 11	12	·11	13	·34	26
30	Tu 12	8	·32	1	·18	22	29	Mo 12	12	·81	8	·43	25	28	Sa 12	13	·09	14	·34	27
31	We 13	9	·34	2	·24	23	30	Tu 13	13	·87	9	·52	26	29	Su 13	14	·05	15	·33	28
32	Th 14	10	·38	3	·32	24	31	We 14	14	·91	10	·59	27	30	Mo 14	A	·00	16	·30	29
1	Fr 15	11	·43	4	·41	25	1	Th 15	A	·94	11	65	28	1	Tu 15	1	·93	17	·26	1
2	Sa 16	12	·50	4	·51	26	2	Fr 16	1	·94	12	·69	29	2	We 16	2	·85	18	·20	2
3	Su 17	13	·57	5	·62	27	3	Sa 17	2	·92	13	·70	1	3	Th 17	3	76	19	·14	3
4	Mo 18	14	·65	6	·73	28	4	Su 18	3	·88	14	·69	2	4	Fr 18	4	·66	20	·07	4
5	Tu 19	A	·73	7	·83	29	5	Mo 19	4	·82	15	·67	3	5	Sa 19	5	·56	21	·00	5
6	We 20	1	·80	8	·83	1	6	Tu 20	5	·75	16	·63	4	6	Su 20	6	·46	22	·93	6
7	Th 21	2	86	9	·91	2	7	We 21	6	·66	17	·58	5	7	Mo 21	7	·37	23	·87	7
8	Fr 22	3	90	10	·98	3	8	Th 22	7	·56	18	·52	6	8	Tu 22	8	·28	24	·82	8
9	Sa 23	4	·92	...	...	4	9	Fr 23	8	·46	19	·45	7	9	We 23	9	·21	25	·78	9
10	Su 24	5	·92	11	·02	5	10	Sa 24	9	·36	20	·38	8	10	Th 24	10	·15	26	·76	10
11	Mo 25	6	·89	12	·04	6	11	Su 25	10	·26	21	·32	9	11	Fr 25	11	·11	27	·75	11
12	Tu 26	7	·85	13	·05	7	12	Mo 26	11	·17	22	·26	10	12	Sa 26	12	·08	1	·76	12
13	We 27	8	·79	14	·04	8	13	Tu 27	12	·09	23	·20	11	13	Su 27	13	·08	2	79	13
14	Th 28	9	·72	15	·01	9	14	We 28	13	02	24	·15	12	14	Mo 28	14	·10	3	·85	14
15	Fr 29	10	·63	16	·96	10	15	Th 29	14	·96	25	·12	13	15	Tu 29	☽	·13	4	·93	15
16	Sa 30	11	·54	17	·90	11	16	Fr 30	1	·88	26	·10	14	16	We 30	1	·19	...	...	16
17	Su 31	12	·44	18	·84	12										2	·26	5	·02	
	Aug.	13	·33	20	·71			**Oct.**							**Dec.**					
18	Mo 1	14	·23	21	·64	13	17	Sa 1	2	·87	27	·11	15	17	Th 1	3	·34	6	·12	17
19	Tu 2	☽	·13	22	·57	14	18	Su 2	3	·88	1	·13	16	18	Fr 2	4	·43	7	·23	18
20	We 3	1	·04	23	·52	15	19	Mo 3	4	·91	2	·17	17	19	Sa 3	5	·52	8	·34	19
21	Th 4	2	·96			16	20	Tu 4	5	·96	3	·23	18	20	Su 4	6	·60	9	·44	20
22	Fr 5	3	·89	24	·49	17	21	We 5	...	...	4	·31	19	21	Mo 5	7	·66	10	·52	21
23	Sa 6	4	·85	25	·46	18	22	Th 6	6	·03	5	·41	20	22	Tu 6	8	·71	11	·59	22
24	Su 7	5	·82	26	·45	19	23	Fr 7	7	·11	6	·52	21	23	We 7	9	·74	12	·64	23
25	Mo 8	6	·81	27	·46	20	24	Sa 8	8	·20	7	·63	22	24	Th 8	10	·74	13	·67	24
26	Tu 9	7	·82	1	·49	21	25	Su 9	9	·29	8	·73	23	25	Fr 9	11	·72	14	·68	25
27	We 10	8	·85	2	·55	22	26	Mo 10	10	·37	9	·82	24	26	Sa 10	12	·68	15	·66	26
28	Th 11	9	·90	3	·62	23	27	Tu 11	11	·44	10	·90	25	27	Su 11	13	·63	16	·63	27
29	Fr 12	10	·97	4	·71	24	28	We 12	12	·48	11	·96	26	28	Mo 12	14	·56	17	·59	28
30	Sa 13	...	...	5	·81	25	29	Th 13	13	·51	...	...	27	29	Tu 13	A	·48	18	·53	29
31	Su 14	11	·05	6	·92	26	30	Fr 14	14	·50	12	·00	28	30	We 14	1	·39	19	·47	30
1	Mo 15	12	·14	...	...	27	31	Sa 15	A	·48	13	·02	29	1	Th 15	2	·29	20	·41	1
2	Tu 16	13	·22	7	·03	28	1	Su 16	1	·44	14	·02	30	2	Fr 16	3	·19	21	·34	2
3	We 17	14	·29	8	·13	29	2	Mo 17	2	·39	15	·00	1	3	Sa 17	4	·09	22	·27	3
4	Th 18	A	·35	9	·22	30	3	Tu 18	3	·32	16	·97	2	4	Su 18	5	·00	23	·20	4
5	Fr 19	1	·38	10	·28	1	4	We 19	4	24	17	·92	3	5	Mo 19	6	92	24	·15	5
6	Sa 20	2	·41	11	·33	2	5	Th 20	5	15	18	·86	4	6	Tu 20	7	84	25	·11	6
7	Su 21	3	·41	12	·37	3	6	Fr 21	6	·06	19	·79	5	7	We 21	8	·78	26	·08	7
8	Mo 22	4	·39	13	·38	4	7	Sa 22	7	96	20	·72	6	8	Th 22	9	·74	27	·07	8
9	Tu 23	5	·35	14	·37	5	8	Su 23	8	·86	21	·65	7	9	Fr 23	10	·72	1	·08	9
10	We 24	6	·29	15	·34	6	9	Mo 24	9	76	22	·59	8	10	Sa 24	11	·73	2	·11	10
11	Th 25	7	·22	16	·29	7	10	Tu 25	10	·67	23	·53	9	11	Su 25	12	·75	3	·16	11
12	Fr 26	8	·14	17	·24	8	11	We 26	11	59	24	·48	10	12	Mo 26	13	·78	4	·23	12
13	Sa 27	9	04	18	·18	9	12	Th 27	12	·53	25	·45	11	13	Tu ○ 27	14	·84	5	·32	13
14	Su 28	10	·94	19	·11	10	13	Fr 28	13	·49	26	·43	12	14	We 28	☽	·92	6	·42	14
15	Mo 29	11	·84	20	·04	11	14	Sa 29	14	47	27	·43	13	15	Th 29	...	...	7	·53	15
16	Tu 30	12	·74	21	·97	12	15	Su 30	☽	46	1	·44	14	16	Fr 30	1	·00	8	·64	16
17	We 31	13	·64	22	·91	13	16	Mo 31	1	47	2	·48	15	17	Sa 31	2	09	9	·74	17
		☽	·47	24	·82				2	·50	3	·54				3	·18			

15. Svati. 16. Visak. 17. Anur. 18. Jyesh. 19. Mula. 20, P. Ash. 21. U. Ash 22. Sravn. 23. Dani. 24. Satab. 25. P. Bhad. 26. U. Bhad. 27. Rev.

APPENDIX II:—Geocentric (Indian) Longitudes of Sun and Major planets

(For the years 1840—1909,

Day of S Yr			0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
⊙'s Mean L			357 0	6 9	16 7	26 6	36 4	46 3	56 1	66 0	75 9	85 7	95 6	105 4	115 3	125 1	135 0	144 8	154 7	164 6
Actual do.			+2 1	+2 0	+1 9	+1 7	+1 4	+1 1	+0 8	+0 4	+0 0	-0 3	-0 7	-1 1	-1 4	-1 6	-1 9	-2 0	-2 1	-2 2
English date			Ap 13	Ap 23	My 3	My 13	My 23	Je 2	Je 12	Je 22	Jl 2	Jl 12	Jl 22	Au 1	Au 11	Au 21	Au 31	S 10	S 20	S 30
Tamil month			Chit	Chit	Chit	Chit	Vaik	Vaik	Vaik	Ani	Ani	Ani	Adi	Adi	Adi	Avani	Avani	Avani	Pura	Pura
Do date			1	11	21	31	10	20	30	9	19	29	7	17	27	6	16	26	5	15
1910	Mars	...	55 6	61 8	68 0	74 3	80 5	86 8	93 0	99 7	105 6	111 9	118 2	124 4	130 8	137 1	143 6	149 9	156 3	162 9
⊙'s L	Merc	..	6 8	24 1	37 9	45 9	44 1	36 6	37 1	46 9	61 8	79 1	97 4	116 0	133 6	149 5	161 6	166 4	161 5	154 8
+6	Jup	..	164 8	163 7	162 5	161 6	161 1	161 0	161 1	161 3	162 3	163 4	164 6	166 1	167 9	169 7	171 6	173 7	175 7	177 9
	Ven	...	313 6	322 7	332 9	343 6	354 3	5 4	17 0	28 7	40 2	52 2	64 0	75 7	87 7	99 8	112 0	124 2	136 6	148 5
	Sat.	...	2 3	3 6	4 9	6 3	7 5	8 6	9 9	10 9	11 8	12 7	13 1	13 6	13 9	13 7	13 6	13 5	12 9	12 2
1911	Mars	...	298 4	305 7	313 0	320 5	327 7	335 1	342 2	349 1	356 2	2 9	9 3	15 4	21 3	26 9	31 9	36 4	39 7	42 9
⊙ s L	Merc	...	16 3	25 6	25 9	18 5	18 7	24 7	38 7	56 1	74 4	93 2	111 4	128 1	141 8	148 9	146 6	139 0	139 0	147 7
+4	Jup	.	198 8	197 6	197 0	194 9	193 8	192 8	191 9	191 4	191 4	191 4	191 7	192 6	193 5	194 9	196 3	198 0	199 7	201 7
	Ven	..	31 8	43 6	55 7	67 2	78 9	90 3	100 9	111 7	122 0	131 6	140 3	147 9	153 7	156 6	156 0	151 2	145 1	140 2
	Sat.	...	14 3	15 7	17 1	18 5	19 8	21 1	22 4	23 7	25 2	26 5	26 9	27 2	27 6	27 7	27 9	28 0	27 5	27 1
Eng Date			Ap 12	Ap 22	My 2	My 12	My 22	Je 1	Je 11	Je 21	Jl 1	Jl 11	Jl 21	Jl 31	Au 10	Au 20	Au 30	S 9	S 19	S 29
1912	Mars	.	70 9	76 5	82 1	87 9	93 7	99 5	105 6	111 5	117 7	123 8	130 1	136 3	142 4	148 9	155 4	161 8	168 3	174 8
⊙ s L	Merc	...	8 3	1 1	357 1	3 1	15 9	32 8	51 1	69 1	88 8	106 1	120 8	130 2	130 8	123 2	120 8	127 7	140 9	157 1
+1	Jup	.	232 4	231 0	230 6	229 9	228 6	227 3	225 9	224 8	223 7	222 9	222 2	222 0	222 0	222 4	223 3	224 4	225 4	226 8
	Ven	..	336 8	349 1	1 1	13 6	25 8	37 1	50 4	62 6	74 8	87 2	99 3	111 6	124 6	136 2	148 5	160 6	173 1	185 5
	Sat	...	26·9	28 2	29 5	30 8	32 1	33 4	34 8	36 1	37 3	38 5	39 4	40 2	41 2	41 6	42 1	42 5	42 4	42 3
1913	Mars	..	316 3	323 9	331 7	339 3	347 0	354 5	1 9	9 3	16 4	23 6	31 0	37 3	43 8	50 2	56 5	62 4	68 0	73 2
⊙ s L	Merc.	.	338 9	342 2	353 7	9 3	27 6	46 7	65 4	83 7	98 4	110 8	114 1	106 3	103 2	107 7	119 8	135 3	152 9	170 6
-1	Jup		261 0	261 6	264 8	264 7	264 4	263 6	262 6	261 4	260 1	258 8	257 5	256 3	255 5	254 7	254 4	254 4	254 6	255 3
	Ven		19 4	14 7	9 1	4 3	4 2	7 6	13 5	21 2	30 1	39 9	50 3	60 8	71 9	83 2	94 9	106 6	118 5	130 4
	Sat.	...	39 5	40 7	41 9	43 1	44 5	45 9	47 3	48 6	49 9	51 3	52 3	53 4	54 4	55 2	55 9	56 4	56 7	56 9
Eng.Date.			Ap 13	Ap 23	My 3	My 13	My 23	Je 2	Je 12	Je 22	Jl 2	Jl 12	Jl 22	Au 1	Au 11	Au 21	Au 31	S 10	S 20	S 30
1914	Mars	...	88 7	93 0	97 9	103 0	108 4	114 1	119 4	125 1	131 0	137 0	143 0	149 1	155 5	161 7	168 3	174 8	181 4	188 0
⊙ s L.	Merc.	..	333 3	348 4	6 3	25 3	44 2	62 5	78 6	90 8	95 4	90 2	84 4	88 4	100 0	115 5	132 9	150 8	168 5	184 9
+6	Jup	...	293 9	295 4	296 7	297 7	298 9	299 0	299 2	298 6	298 1	297 2	296 2	294 9	293 6	292 4	231 2	290 1	289 2	288 7
	Ven	...	14 7	27 1	39 5	51 6	63 7	75 7	87 6	99 5	111 1	123 1	134 7	146 3	157 6	168 9	179 7	190 1	199 8	209 1
	Sat.	...	52 4	53 5	54 8	55 9	57 2	58 5	59 9	61 2	62 5	63 9	64 8	65 6	66 6	67 9	69 1	70 3	70 7	71 2
1915	Mars	.	333 7	341 6	349 3	356 8	4 6	12 1	19 4	26 8	34 0	41 1	48 0	54 8	61 6	68 1	74 5	80 8	86 8	92 7
⊙ s L.	Merc	..	344 3	1 9	20 8	39 2	56 1	69 9	76 5	73 1	66 1	68 3	78 5	93 3	111 8	129 0	147 0	164 1	179 1	189 2
+4	Jup.	...	322 2	324 4	326 4	328 4	330 0	331 6	332 8	333 7	334 4	334 8	334 9	334 4	333 7	332 7	331 5	330 2	328 8	327 4
	Ven.		320 7	332 5	344 6	356 8	8 5	20 8	32 9	44 9	57 0	69 1	81 3	93 4	105 7	118 0	130 4	142 6	155 0	167 4
	Sat	...	65 7	66 7	67 6	68 6	69 8	71 1	72 3	73 7	75 1	76 4	77 7	79·0	80 3	81 3	82 4	83 5	84 2	84 8
Eng.Date			Ap 12	Ap 22	My 2	My 12	My 22	Je 1	Je 11	Je 21	Jl 1	Jl 11	Jl 21	Jl 31	Au 10	Au 20	Au 30	S 9	S 19	S 29
1916	Mars		110 8	113 2	116 4	120 1	124 1	129 2	134 0	139 3	145 3	151 0	156 7	162 6	168 7	175 1	181 6	188 2	194 7	201 6
⊙ s L	Merc.	..	357 6	14 9	33 4	47 8	56 6	55 8	48 3	47 6	56 5	71 1	88 3	106 4	124 8	142 5	158 1	170 5	175 8	171 1
+1	Jup	...	349 9	352 3	354 7	357 1	359 3	1 1	3 5	5 3	7·0	8 5	9 6	10 5	11 1	11 3	11 1	10 6	10 0	8 9
	Ven	..	34 4	54 8	64 3	73 0	80 9	85 5	88 1	86 7	82 9	75 3	70 7	71 1	74 5	80 3	88 3	97 1	107 2	117 6
	Sat	...	79 2	79 9	80 7	81 3	82 4	83 6	84 8	86 1	87 4	88 7	90 1	91 5	92 8	94 0	95 1	96 4	97 3	98 1
Eng Date			Ap 13	Ap 23	My 3	My 13	My 23	Je 2	Je 12	Je 22	Jl 2	Jl 12	Jl 22	Au 1	Au 11	Au 21	Au 31	S 10	S 20	S 30
1917	Mars	.	350 4	358 1	5 7	13 1	20 6	28 0	35 2	42 3	49 5	56 3	63 3	70 0	76 5	83 1	89 5	96 0	102 1	108 1
⊙ s L	Merc	...	12 2	27 2	36 6	36 9	29 3	27 8	35 8	50 1	67 0	85 6	104·0	122 1	138 8	151 9	158 7	156 0	148 5	148 9
+8	Jup	.	17 7	20 1	22 5	21 9	27 3	29 7	32 0	34 4	36 5	38 6	40 5	42 2	43 8	45 0	46 1	46 8	47·2	47 3
	Ven	...	356 5	8 8	21 2	33 5	45 9	58 1	70 2	82 5	94 4	106 9	119 1	131 2	143 3	155 3	167 3	179 1	191 4	203 0
	Sat.	...	92 9	93 4	93 9	94 5	95 4	96 3	97 4	98 6	99 8	101 1	102 4	103 7	105 1	106 3	107 6	108 9	110 0	111 0
1918	Mars	...	141·7	141 1	141 3	143·1	145 5	148 9	152 7	157 2	162 0	167 3	172 9	178 5	184 5	190 7	197 2	203 8	210 4	217 4
⊙'s L	Merc	...	14 3	18·4	11 9	8 1	14 2	27 5	44 0	62 5	81 3	99·7	116 9	131 4	140 8	140 7	133 1	130 8	138 2	151 2
+6	Jup	...	45 3	47 5	49 6	51 8	53 7	56 4	58 7	61 0	63 4	65 7	68 0	70 2	72 2	73 9	75 8	77 5	78 9	80 0
	Ven	..	313 1	322 8	332 8	343 7	354 6	5 9	17 3	28 9	40 7	52 6	64 6	76 2	88 3	100 3	112 5	124 7	136 9	149 2
	Sat.	...	106 6	106 9	107 2	107 6	108 3	109 1	109 8	110 9	112 1	113 2	114 5	116 8	117 0	118 3	119 6	121 0	122 1	123 3
1919	Mars	..	5 5	13 0	20 4	27 6	34 8	41 9	48 9	56 1	62 8	69 8	76 4	82 9	89 7	96 0	102 7	109 0	115 2	121 3
⊙ s L.	Merc	...	354 9	349 0	352 9	5 0	20 8	39 0	58 0	76 9	94 5	110 2	121 2	124 0	117 5	112 9	118 2	130 1	146 0	163 1
+3	Jup	..	73 9	75 2	76 9	78 6	80 5	82 5	84 6	86 8	89 1	91 4	93 6	95 9	98 3	100 5	102 6	104 7	106 7	108 4
	Ven	...	32 3	44 2	56 0	67 7	79 2	90 4	101 4	112 0	121 9	131 3	139 8	147 0	152 0	154 3	152 7	147 1	139 6	137 6
	Sat	.	119 5	120 6	120 5	120 6	121 0	121 6	122 1	122 8	123 6	124 3	125 4	126 5	127 7	129 0	130 3	131 5	132 8	134 1

Mesh.	Vrsh	Mith	Kat	Sim.	Kan	Tul	Vrsch	Dhan	Mak	Kum	Min	Asvn	Bhar	Krit	Rohi	Mrig.	Ardh.	Punar.	Push	Asles.
30	60	90	120	150	180	210	240	270	300	330	360	13 3	26 7	40 0	53 3	66 7	80 0	93 3	106 7	120·0

at Ujjain mean Sunrise for every ten days from A D 1910 to A D 1919.

see *Indian Chronology*, **Table XVIII).**

180	190	200	210	220	230	240	250	260		270	280	290	300	310	320	330	340	350	360
174 4	184 3	194 1	204 0	213 8	223 7	233 5	243 4	253 3		263 1	273 0	282 8	292 7	302 5	312 4	322 2	332 1	342 0	351-8
−2 2	−2 1	−1 9	−1 7	−1 5	−1 2	−0 9	−0 5	−0 1		+0 3	+0 6	+1 0	+1 3	+1 6	+1 8	+2 0	+2 1	+2 2	+2 2
O 10	O 20	O 30	N 9	N 19	N 29	D 9	D 19	D 29		Ja 8	Ja 18	Ja 28	F 7	F 17	F 27	Mr 9	Mr 19	Mr 29	Ap 8
Pura	Aipp	Aipp	A pp	Kart	Kart	Kart	Marg	Marg		Marg	Tai	Tai	Tai	Masi	Masi	Masi	Pang	Pang	Pang
25	4	14	24	4	14	24	5	15		25	5	15	25	6	16	26	6	16	26
169 4	176 0	182 5	189 0	195 7	202 4	209 3	216 1	223 0	**11**	229 9	236 8	243 7	250 9	258 2	265 3	272 6	280 0	287 2	294 5
157 6	168 1	182 6	199 3	216 7	233 9	249 7	263 0	270 5		269 0	260 8	260 0	268 4	282 1	298 7	316 9	335 1	353 1	9 1
180 1	182 3	184 4	186 6	188 8	190 9	192 8	194 6	196 3		197 9	199 4	200 3	201 2	201 6	201 7	201 6	201 3	200 5	199 5
161 0	173 5	186 0	198 6	211 0	223 7	236 2	248 9	261 5		274 1	286 8	299 3	311 9	324 3	336 9	349 2	1 5	13 8	25 8
11 5	10 6	9 8	9 0	8 3	7 7	7 1	6 8	6 6		6 4	6 8	7 1	7 6	8 4	9 3	10 2	11 4	12 6	13 8
																Mr 8	Mr 18	Mr 28	Ap 7
44 8	45 7	44 9	42 7	40 1	37 0	34 5	32 8	32 0	**12**	32 7	34 4	37 0	40 3	44 0	48 1	52 1	57 6	62 9	68 1
161 7	178 3	195 8	213 8	229 5	243 6	252 9	254 2	246 8		243 0	248 8	261 3	277 1	234 5	312 7	330 3	347 2	0 6	7 8
203 8	205 8	207 9	210 2	212 4	214 6	216 8	219 0	221 1		223 2	225 0	226 7	228 3	229 8	230 9	231 8	232 4	232 7	232 7
139 9	142 1	149 4	157 1	166 2	176 2	186 5	197 7	209 2		220 7	232 2	244 8	257 0	269 1	281 5	293 5	305 8	318 2	330 7
26 7	25 9	25 1	24 4	23 6	22 9	22 1	21 6	21 1		20 7	20 8	20 9	20 9	21 6	22 2	23 0	24 0	25 2	26 2
O 9	O 19	O 29	N 8	N 18	N 28	D 8	D 18	D 28		Ja 7	Ja 17	Ja 27	F 6	F 16	F 26	Mr 8	Mr 18	Mr 28	Ap 7
181 4	188 2	195 0	201 8	208 6	216 1	223 1	230 2	237 4	**13**	244 5	251 9	259 3	266 8	274 3	281 9	289 5	297 1	304 9	312 6
174 4	192 0	208 6	224 0	235 2	239 1	238 6	227 3	230 2		240 8	255 7	272 9	290 8	308 4	325 1	339 5	348 3	348 0	340 4
228 6	230 4	232 4	234 5	236 7	238 9	241 1	243 3	245 7		247 9	250 1	252 3	254 3	256 3	258 2	259 9	261 5	262 8	263 6
197 8	210 1	222 4	234 7	247 0	259 4	271 4	283 5	295 4		307 2	319 4	329 8	340 5	350 6	0 2	8 4	14 9	19 6	20 6
42 1	41 2	40 2	39 2	38 6	38 1	37 6	36 9	36 3		35 5	35 3	35 2	34 9	35 4	35 8	36 2	37 0	37 9	38 9
78 1	82 5	86 3	89 4	91 7	92 7	92 9	91 4	88 8	**14**	85 5	81 7	78 5	76 0	74 9	75 3	76 9	79 3	82 5	86 1
188 0	201 2	216 9	223 5	221 1	213 2	212 8	221 3	234 8		251 4	261 1	286 7	303 6	318 5	328 9	331 2	324 4	320 5	326 2
206 2	257 6	259 2	260 8	262 5	264 5	266 6	268 0	271 0		273 3	275 6	278 0	280 3	282 7	284 9	287 1	289 2	291 2	293 2
142 4	154 7	166 9	179 4	191 7	204 1	216 8	229 2	241 7		254 4	267 1	279 6	292 4	305 3	318 2	329 9	342 5	355 0	7 2
57 0	56 6	56 1	55 7	55 9	54 1	53 3	52 5	51 8		51 0	50 6	50 1	49 7	49 7	49 8	49 8	50 5	51 2	51 9
O 10	O 20	O 30	N 9	N 19	N 29	D 9	D 19	D 29		Ja 8	Ja 18	Ja 28	F 7	F 17	F 27	Mr 9	Mr 19	Mr 29	Ap 8
194 9	201 7	208 6	215 6	222 8	230 1	237 4	244 7	252 1	**15**	259 7	267 3	275 1	282 7	290 4	298 3	306 2	314 1	321 9	329 8
198 5	207 1	206 2	198 6	196 5	203 6	216 4	232 2	249 7		26 1	281 0	299 2	310 3	313 8	307 5	301 7	306 7	318 6	334 6
288 5	288 8	289 3	290 1	291 3	292 6	294 2	295 9	298 2		300 3	302 4	304 8	307 1	309 1	311 8	314 3	316 7	319 1	321 4
217 1	223 8	227 5	228 7	224 6	218 5	213 6	212 6	215 4		229 9	228 3	237 2	247 1	257 6	268 5	279 6	291 1	302 8	314 7
71 5	71 3	71 2	71 0	70 3	69 5	68 9	68 1	67 4		66 5	65 9	65 2	64 5	64 4	64 1	64 0	64 4	64 9	65 2
																Mr 8	Mr 18	Mr 28	Ap 7
98 4	103 8	108 9	113 4	117 9	121 8	124 9	127 1	128 4	**16**	128 6	127 5	125 3	122 0	118 0	114 2	111 4	109 7	109 2	110 1
191 7	185 1	180 3	181 8	196 4	211 7	228 6	245 9	262 9		273 6	291 2	296 8	292 8	294 4	296 2	306 5	321 2	338 1	348 3
326 3	325 6	324 9	324 4	324 3	324 7	325 3	336 3	327 6		329 2	329 8	332 7	334 8	337 0	339 2	341 6	344 0	346 4	348 8
179 9	192 4	205 0	217 5	229 9	242 5	255 5	267 7	280 1		292 6	304 9	317 2	329 3	341 5	353 5	5 1	17 0	28 1	39 2
85 4	85 5	85 7	85 8	85 3	84 9	84 4	83 6	82 8		82 0	81 1	80 3	79 4	79 1	78 7	78 4	78 5	78 5	78 6
O 9	O 19	O 29	N 8	N 18	N 28	D 8	D 18	D 28		Ja 7	Ja 17	Ja 27	F 6	F 16	F 26	Mr 8	Mr 18	Mr 28	Ap 7
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164 5	166 7	176 6	191 1	207 5	224 9	242 0	258 2	271 7		279 5	278 4	270 8	267 3	277 2	290 9	307 4	323 3	342 1	0 5
7 8	6 4	5 0	3 8	2 6	1 7	1 0	0 9	0 9		1 4	2 1	3 2	4 4	6 1	7 9	9 7	11 9	14 1	16 4
128 6	139 9	151 5	163 2	175 3	187 3	199 5	211 7	224 0		236 5	249 2	261 5	274 2	287 0	299 0	311 6	324 1	336 6	349 0
98 9	99 3	99 7	100 1	99 8	99 6	99 4	98 7	98 0		97 4	96 6	96 9	95 0	94 3	93 7	93 0	92 9	92 7	92 5
O 10	O 20	O 30	N 9	N 19	N 29	D 9	D 19	D 29		Ja 8	Ja 18	Ja 28	F 7	F 17	F 27	Mr 9	Mr 19	Mr 29	Ap 8
114 1	119 9	125 6	131 0	136 1	141 2	145 8	149 9	153 6	**18**	156 4	158 8	159 9	160 2	158 6	155 8	152 6	148 4	145 2	142 4
157 8	171 9	188 3	205 6	222 9	239 4	253 3	262 5	263 0		255 6	252 3	258 5	271 3	287 4	305 1	323 2	341 1	357 9	11 3
47 0	46 4	45 5	44 3	43 1	36 7	40 3	39 2	38 1		37 3	36 9	36 7	37 0	37 6	38 5	39 6	40 9	42 5	44 3
215 0	226 7	237 8	249 2	260 1	270 5	280 2	289 2	296 8		302 2	301 8	303 7	298 4	292 1	289 1	290 3	294 1	300 8	308 7
111 9	112 6	113 2	113 8	113 9	113 9	114 0	113 9	113 1		112 5	111 7	110 9	110 2	109 4	108 6	107 8	107 4	106 9	106 6
224 4	231 4	238 6	246 0	253 5	260 9	268 7	276 3	283 9	**19**	291 8	299 6	307 5	315 0	323 2	331 0	338 8	346 6	354 2	1 4
167 3	184 7	202 1	218 7	233 7	244 6	248 1	242 0	236 4		239 7	250 8	265 9	283 2	301 3	319 0	334 8	350 2	358 9	358 6
80 9	81 1	81 8	81 6	81 2	80 3	79 0	78 1	76 8		75 6	74 3	73 2	72 2	71 6	71 3	71 3	71 5	72 3	73 3
161 5	174 0	186 4	198 7	211 5	224 1	236 7	249 4	262 0		274 7	287 3	299 6	312 1	325 0	327 8	341 7	2 0	14 3	26 2
124 4	125 1	125 9	126 7	127 1	127 3	127 7	127 7	127 8		127 9	126 3	125 6	124 9	124 0	123 2	122 4	122 4	120 5	119 6
																Mr 8	Mr 18	Mr 28	Ap 7
127 5	133 5	139 5	145 2	151 0	156 5	162 0	167 1	172 2	**20**	177 2	181 7	185 6	189 3	192 3	194 4	195 7	195 6	194 3	191 7
180 9	198 0	213 9	226 3	232 3	228 9	221 7	222 1	231 1		245 1	261 8	279 4	298 0	314 1	328 9	339 1	341 2	334 4	331 7
110 0	111 3	112 5	113 4	114 1	114 4	114 4	114 1	113 3		112 4	111 3	109 9	108 6	107 4	106 2	105 2	104 4	104 0	103 9
138 2	141 9	148 5	156 8	165 8	176 1	186 9	198 0	209 3		221 0	233 0	245 3	257 5	269 6	282 0	294 1	306 8	318 8	331 2
135 4	136 3	137 4	138 4	139 2	139 9	140 7	140 9	141 1		140 7	140 8	140·4	139 2	139 4	138 6	136 7	137 1	136 4	134 5

Mag	P Phal.	U Phal	Hasta.	Chit	Svati	Visak	Anur	Jyesh.	Mula.	P Ash	U Ash	Srav	Dan	Satab	P. Bhad	U Bhad.	Revati
133 3	146 7	160·0	173 3	186 7	200 0	213 3	226 7	240 0	253 3	266 7	280 0	293·3	306 7	320·0	333 3	346 7	360 0

EXPERT OPINIONS ON "INDIAN CHRONOLOGY"

Review by Prof Hermann Jacobi (Bonn) in *Journal of Royal Asiatic Society London*, July 1912

Mr Swamikannu Pillai's work, the contents of which are summarily indicated by the title, gives complete information on all topics of Indian Chronology and furnishes accurate methods for calculating all items connected with it For the latter purpose serve numerous tables, which take up 233 closely printed quarto pages, containing little short of a million of figures They are preceded by 114 pages of letter press divided into 4 parts The first part gives a full and clear explanation of the calendary system of the Hindus, the quantities used in it, and methods for calculating those items which are noticed in an Indian Almanac, *viz*, solar and lunar days week-days, nakshatras, the Tyajyam, yogas, Jovian, cyclic years eclipses, &c The second and third parts explain the use of the several tables and their construction The fourth part (Planets and Planetary Chronology) teaches how to calculate the mean and the true places of planets and how to construct Indian horoscopes The author, who does not believe in astrology (Preface p ii), has included this part of Hindu Chronology, because he writes not only for the historian and scholar, but also for the Indian reader who takes a practical interest in these things He therefore naturally treats all chronological questions from the Indian point of view, and in accordance with it he has invented his methods for solving them To illustrate this characteristic trait of Mr. Swamikannu Pillai, let us consider the most frequent task of the epigraphist, that of verifying a lunar date coupled with the week-day *i e*, of ascertaining the Christian date on which a given tithi ended Now the present reviewer's method in the *Indian Antiquary*, Vol XII, and *Epigraphia Indica*, Vol I, as well as, as that of Messrs Sewell and Dikshit in the *Indian Calendar*, consists in this that we first find approximately the sought for day and then compute accurately for the beginning of that day the number of elapsed tithis and the fraction of the running tithi The result shows, in most cases at once, whether the right day has been selected, and the end of the running tithi can be found from a proper table But Mr Swamikannu Pillai "investigates, directly and once for all, the ending moment of a tithi, the very thing required by Indian usage" (p 89) To solve this problem in the manner of the Hindus would require a most wearisome calculation, but properly constructed tables may save the calculator the greater part of the trouble This is what the author has admirably succeeded in achieving His table X, which covers more than a hundred pages, furnishes for all years from B C 1 to A D 2000 and for the twelve months of each year, the necessary quantities which, operated upon in a further process with the help of three auxiliary tables (Eye-table), yield the ending moment of the tithi in two decimals of a day The operations to be gone through are easy and not too many, and the whole process if once clearly understood and its details thoroughly mastered, *will require less time than that of Sewell and Dikshit.* But the author's boast that the computation can be performed in less than a minute will fill with admiration and envy calculators less practised than Mr Pillai undoubtedly is However, if the habits and requirements of Western Scholars only are considered, the process of verifying lunar dates can be rendered still more easy, as will be seen from my improved and developed *Epigraphia Indica* tables which will soon be published in the *Encyclopedia of Indo-Aryan Research* To return to Mr Swamikannu Pillai's work, it must be added that his table is based on the *Surya Siddhanta* but that for the years from 500 to 999 A D all the items are given according to the *Arya Siddhanta* also, and that the *Adhika* and *Kshaya* months, as well as the solar and lunar eclipses (from *Last detector les dates*) are indicated in Table X The author has given two sets of tables for finding the ending moment of the tithi with still greater precision, four decimals of the day, in accordance with the *Surya Siddhanta* and the *Arya Siddhanta*, of course, the process of calculation becomes more complicated when a higher degree of precision is aimed at A set of similar tables serves for finding the end of *nakshatras* and *yogas* Again, for the years from

1841 to 1920 A. D. which for practical purposes of to-day call for a separate treatment, the same problems are worked out in *ghatikas* and *palas* in Tables IX and XII. And for the same period Table XIII furnishes the equation of true to mean sunrise for a number of important places in India from the 8th to the 35th degree of latitude, and Table XVIII true places of the sun and the planets for every tenth day. It is impossible to notice all the tables and their uses in a short review, but attention should be drawn to the planetary tables (XVII) by which the true place of the planets will be found for any time in accordance with the Hindu method, and the Eye-table which gives the auxiliary tables constantly used, printed on a rather crowded folio page (also issued separately mounted on strong paper). *The Eye-table by itself suffices to solve the usual chronological problems.*

As regards the methods of Mr. Swamikannu Pillai in general, they may safely be pronounced to be sound and correct. The author has taken care to prove their correctness by calculating the same dates which have been calculated by his predecessors, and showing that his method yields exactly the same results arrived at by them. His ingenuity in devising these methods and his indefatigable preseverance in working them out in numerous tables, will ever command the sincere respect of all who are able to appreciate work of this kind. *The author has rendered a great service to his science, and will have a lasting claim on our gratitude.* It is fortunate that we now possess two works treating of Indian Chronology in all its branches the older one by Sewell and Dikshit, of which a third part has just appeared, and the work under review; they may be said to be rival works but they act as supplement the one to the other; as either author takes up an individual attitude towards his subject and in such cases the reader will always be the gainer.

FROM DR. F. J. FLEET. *(7th December 1911.)*

I am greatly obliged to you for sending me a copy of your "Indian Chronology" and its Eye-Table. . . . I have seen enough to satisfy me that *it is a most valuable contribution to the line of work to which it belongs.* I have also read with much interest your Lecture on Chronology and the Precession of the Equinoxes. The point that the Hindu solar year was intended to be anomalistic has much probability. But I think it has already been suggested by one or two writers; perhaps by Dr. P. J. Burgess who, I think, is of this opinion.

FROM DR. E. HULTZSCH. *(Halle, 13th December 1911.)*

It is most kind of you to favour me with a copy of your difficult and laborious work. Many thanks for it . . . I cannot help expressing my admiration at the formidable calculations you must have gone through in preparing your work.

FROM DR. J. BURGESS. *(14th December 1911.)*

I have to acknowledge with very sincere thanks your kindness in sending me a copy of your "Indian Chronology" and also of your "Eye-Table of Indian Chronology." The works promise to be useful especially to the Epigraphist. . . . *The examples you give support your results, and so testify to the accuracy of the Tables. You seem to have simplified the problem in a very ingenious way, and I heartily congratulate you on this.*

Jegam & Co., Trichy.

Indian Chronology, Solar, Lunar and Planetary,
B C 3102 to B C 1 and A D 1 to A D 2000

By Dewan Bahadur L D Swamikannu Pillai, M A., B L (Madras), LL.B (London).

Fifty Different Uses of the Book.

Indian Chronology is the first attempt at a complete and exhaustive treatment in easy language and by simple methods (see pages 3 4 5 and 6 below) of those great Indian mysteries the *Panchanga* and the *Horoscope*

The first element in a Panchanga is the *Vara* or week day *Indian Chronology* shows how the week-day of any date from B C 3102 to A D 2000 may be determined (Examples at pp 3 and 4 below)

The second element in a Panchanga is the *Tithi* or moon's elongation Any tithi in the period of 5 000 years from B C 3102 to A D 2000 may be calculated in less than a minute by the methods of *Indian Chronology* (See p 4 below)

The third Panchanga element is the *Nakshatra* *Indian Chronology* shows how any Nakshatra may be calculated for any date in the same period of 5 000 years (See pp 3, 4 and 5 below)

The fourth element is the *Yoga* which also is fully expounded (See examples at p 4 below)

The fifth and last element is the *Karana* or half tithi *Indian Chronology* shows how *Karanas* are actually calculated

The *ahas* or length of day indicated in panchangas can be *calculated* instead of being taken on trust, and the method is fully explained in *Indian Chronology*

8 The *tyajya* is equally brought within the range of calculation by the rules in *Indian Chronology*

9 *Eclipses* are a very important factor in the panchanga All eclipses occurring between B C 1 and A D 2000 are clearly tabulated in *Indian Chronology*

10 Festivals in India depend on the movements of the sun and the moon *Indian Chronology* shows the exact relation among festivals, *Tithis* and *Nakshatra*

11 Certain auspicious or inauspicious combinations of *Nakshatras* and *Yogas* are looked forward to with great avidity or with great anxiety *Indian Chronology* shows how to predict them

12 The Indian reckoning of time is from sunrise, and *Indian Chronology* lays down in absolutely simple language, rules for determining the moment of sunrise for any place in India

13. The moment of sunset may be calculated by the rules in *Indian Chronology*

14 The Panchanga gives the correspondence of only one A D and one Indian year *Indian Chronology* furnishes and fully expounds this correspondence for 5 000 years from the commencement of Kaliyuga

15 The correspondence between European and Indian months can best be studied by means of *Indian Chronology*

16 It does not overlook Muhammadan *months*, which are named, tabled and succinctly treated in *Indian Chronology*.

17. What is the Hejra *year* corresponding to an English or an Indian year? The question is exhaustively answered in *Indian Chronology*

18 It exhibits such minutiæ as Muhammadan leap years, the reckoning of the Muhammadan civil day Muhammadan cycles of years beginning with the Flight and ending with A D 2000 etc etc

19 *Indian Chronology* notes carefully the mutual equivalence of A D and Kaliyuga years, of A D and Saka years of A D and Vikrama years, of A D and Kollam years of A D and all other eras in use in India

20 It exhibits all the years in the Brihaspati or Jovian cycle for Southern India and it gives separately the same cycle for Northern India, showing how and where the difference between the Northern and Southern systems comes in

21 *Evidence* as to time period, and age in this country is often presented in terms of the Indian Calendar When an illiterate man gives the date of his birth as the year *Aha'a* month of *Aippasi*, *Mula* Nakshatra, the hearer is apt to imagine that this is a very vague and unreliable record whereas *Indian Chronology* shows it to be a very accurate record capable of exact determination and at the same time far more easily remembered and therefore far more reliable than a date cited from memory according to the European Calendar Judges Magistrates Lawyers Notaries Public Head-Masters Missionaries, etc in this country may *with very little trouble* equip themselves with the knowledge necessary to understand and sift such evidence Lastly, the head of an office who requires evidence as to a clerk's age, and is shown a horoscope as the only family record on the subject, is at present without means of testing the genuineness of the document or even of understanding its import as a time record He may do both with the help of *Indian Chronology*

22 Astrology is said to depend on exact calculation, but the current text books on Astrology do not teach the student how to calculate any astrological position accurately *Indian Chronology* fulfils this want (See pp 5 and 6 below)

23 It enables the reader to calculate the geocentric longitude of and therefore the *rasi* and degree and tenth parts of a degree occupied by the Sun, Moon and Major Planets for any moment between 1601 B C and A D 2000 (See examples at pp 5 and 6 below)

24 It expounds the practical difference between superior and inferior planets in astronomical computation

25 It gives *separately* and *clearly* the *exact* position of each planet for every tenth day in each year from A D. 1840 to A D 1920 (Examples at pp 5 and 6 below)

26 It lays down a very simple method for calculating the positions of planets at any moment on intermediate days (See illustrations on pp 5 and 6 below)

27. It lays down with great precision rules for the calculation of the geocentric longitude of each planet, *viz* Sun Moon Rahu and Ketu, Mars, Mercury, Venus, Jupiter and Saturn at any moment in any year B C or A D

[Price Rs. 5—Postage extra.]

Sold by—

GRANT & Co. Royapuram, Madras.

28. In the *Ududasa* system of astrology, the planetary influence on longevity depends on the portion of Nakshtra expired at the time of birth. *Indian Chronology* enables the reader to read his own *Ayurdaya* in the light of the Nakshatra reigning over his birth (p. 5 below).

29. Planetary considerations loom largely in the mind's eye of a Hindu, whatever the task he may be engaged on: *Indian Chronology* enables him to follow in all their intricate details the play and interplay of the planets.

30. Every Hindu is concerned about his 'Guru *dasa*', his 'Sukra *dasa*' and 'Sani *dasa*', but has at present no choice but to take these periods on trust from his horoscope, calculated at the time of his birth by, it may be, an ignorant and incompetent astrologer. Thanks to *Indian Chronology*, he may hereafter calculate the *dasas* for himself.

31. '*Antardasas*' and '*Dasantardasas*' may be calculated by means of the methods in *Indian Chronology*.

32. A planet may be in a very good or a very bad position in the horoscope diagram, but much depends on whether it is in *exaltation*, *debilitation*, *mulatrikona*, *conjunction*, *opposition*, *combustion*, or *defeat*. Any one of these intricate points, now merely taken on trust, may be ascertained by every reader for himself by exact calculation according to the rules laid down in *Indian Chronology*.

33. Astrologers talk mysteriously of *navamsas*, *dvadasamsas* *trimsamsas*, and *shasthiamsas*. To the reader of *Indian Chronology* these terms ought to be as plain as day-light, and a *navamsa* may be ascertained by him in two seconds from Table XXI in *Indian Chronology*. (See Examples at p. 6 below.)

34. What is 'Ahargana'? The formidable operation for determining *ahargana* is not used in *Indian Chronology*, which employs much simpler methods, but Table XXII tells the reader all about *ahargana*.

35. What is *lagna*? How is it arrived at for any birth or marriage? All this is most carefully explained in a special chapter in *Indian Chronology* and the reader need not hereafter take this important element, the foundation of a horoscope, on trust. (Examples, pp. 5 and 6 below.)

36. What are the *Siddhantas* or schools of astronomy current in India? The *Arya Siddhanta*, the *Surya Siddhanta*, the *Vakya* and *Drig-Ganita*, over which there is so much wrangling at astronomical conferences, are fully expounded in *Indian Chronology*; and it becomes possible for a reader, for the first time, to calculate and compare the results of *all* these schools for any Tithi or Nakshatra, Yoga or Karana.

37. When an Indian date is cited, much depends on whether the citation is of an 'expired' or a 'current' year. *Indian Chronology* explains the distinction and shows the reader how to test the citation.

38. The lunar month is reckoned in some parts of India from the full moon, and in others from new moon. *Indian Chronology* explains the practical differences between the *purnimanta* and *amanta* systems.

39. The year in India does not always begin with lunar Chaitra. It may be *Karttikadi*, *Asvinadi*, etc., *Indian Chronology* shows how to adjust the calculation of a date to these local variations.

40. In Southern India and in Bengal the solar reckoning is used for years and months, but different rules are followed in Malabar, on the Coromandel Coast and in Bengal. All the rules are clearly explained in *Indian Chronology* and exhaustively applied by means of practical tables.

41. The Muhammadan year begins with *moon-rise* on the 1st of Muharram. *Indian Chronology* shows how the first moon-rise in a lunar month may be calculated for the purposes of the Muhammadan Calendar.

42. The Kollam or Malayalam era is peculiar, but its peculiarities are fully explained in *Indian Chronology*.

43. All the astronomical processes referred to in *Indian Chronology* are explained in easy, intelligible unmathematical language: see for instance the explanation of *Sodhya* in sec. 66 of the Text.

44. The theory of *anomalies*, so important in Indian Astronomy, is not left to be guessed, but is expounded with an illustrative diagram in a special chapter of *Indian Chronology*.

45. The *precession of equinoxes* is a most important factor in astronomical computation. Not only is the Indian theory fully explained in *Indian Chronology*, but the correctness of Bhaskara's estimate of the precession is, for the first time, successfully vindicated.

N.B.—A special paper on this subject will be forwarded to any reader, free, on application.

46. The ancient Indian year was *tropico-sidereal*, not purely *sidereal*, as it now professes to be. Now in fact it is *anomalistic*, quite as much as, or more than, *sidereal*. The former fact, which is so important in the history of Indian astronomy and to which allusions are constantly made by writers on the antiquity of the Vedas, can be thoroughly grasped by readers of *Indian Chronology*; and further, examples are given, showing how to calculate the *vernal equinox* and the *summer solstice* for B.C. 3,000, for B.C. 2000, for B.C. 1000, in fact for any year B.C. or A.D.

47. The hypothesis that the Indian solar year is at present *anomalistic* as well as *sidereal* is practically demonstrated by the method of *Indian Chronology*.

48. Of the terms used in Indian astronomical computation, none is more common than *mean sunrise*. *Lanka sunrise* or *Ujjain sunrise*. *Indian Chronology* bases all calculations on *Lanka sunrise*, and the term is of course carefully explained. (See examples on pp. 3, 4, 5 and 6 below.)

49. *Ghatikas* and *palas*, *Naligais* and *vinadis* are terms which every Hindu uses in expressing time, but it is not easy to convert the whole of a citation expressed in *days*, *ghatikas* and *palas* readily into its English equivalent. The conversion can be effected by a glance at Tables XIX, XX or the Eye-Table in *Indian Chronology*. (See examples on pp. 3, 4, 5 and 6 below.)

50. Hours and minutes, degrees and minutes of longitude, fractions of a nakshatra, fractions of the sun's or moon's increase of longitude for a day, may all be expressed as decimal parts of their respective integers by mere inspection of special tables, and do not need to be worked out by readers of *Indian Chronology*.

51. There is a special table showing the Hindu sines, and there is another for ascertaining the sine of every fourth part of an angular degree.

52. The work contains 232 pages of this size, in clear, bold print. A comprehensive Eye-table, which is by itself a miniature treatise on *Indian Chronology*, 12 pages of Contents and Addenda, and 12 pages of a very full Index which explains such terms as *dakshinayana*, *uttarayana*, *ritu*, etc., add substantially to the value of the book.

Specimen Calculations of Ending Moments of Tithis, Nakshatras and Yogas.

N.B.—In these calculations all the facilities provided by "Indian Chronology" are made full use of, whereas the Eye-Table alone was used in the examples given at p. 3 of this Prospectus.

The simplicity as well as brevity of these calculations can best be understood by comparison with any of the various methods inculcated in other existing works on the subject: these latter methods are so intricate that in actual practice only a handful of experts have been found willing to apply them to the purposes of Indian Epigraphy, and the methods in question are hardly ever used by lay readers who may wish to calculate tithis and nakshatras for the purposes of every day Hindu life or for astrological use. Even a child can understand and practically apply any of the following methods:—

Table XII and Eye-Table.—Lunar Tithis (A.D. 1840—A.D. 1920.)

Required the ending moment in ghatikas of (Lunar) **Ashada Sukla Ashtami, Saka 1832, Vik. 1967, A.D. 1910.**

		Month.	day	gh.	p.	☉'s Anom. d.	☉'s Anom. gh.	☾'s Anom. d.	☾'s Anom. gh.	
Mean ending moment of Ashadha New Moon, Saka 1832.										
(Table XII) A.D. 1910	..	... Jl.	7	10	57			4	29	
Collective duration of 8 tithis (Eye-Table)			7	52	29	gh. 84	58	7	52	
						☉'s Eqn. —2 (Eye-Tab.)	7	52		
Ending moment of mean Tithi	...	Jl.	15	3	26		92	50	12	21
Sum of ☉'s and ☾'s Equations	...			—11		☾'s Eq. —9 (Eye-Tab.)			—2	(☉'s eqn.)
		Jl.	14	52		—11			12	19

The ending moment of the tithi (Lanka time) was, therefore, 52 ghatikas after Lanka sunrise on 14 July 1910. For local time at Madras, Table XIII gives us +2125 seconds = 88 palas = 1 gh. 28 p. which being added, we get 53 ghatikas after sunrise at Madras on 14 July 1910 as the ending moment of the tithi.

Tables XII, XI and IX:—Nakshatras and Yogas (A.D. 1840—A.D. 1920). Eye-Table not used.

I.—Required the ending moment in ghatikas and palas of Nakshatra Krittika for the month of July 1910 (vide p. 232 of Tables).

			d.	gh.	p.	☾'s Anom. d.	☾'s Anom. gh.	☾'s Anom. p.	
(Table XII, p. 151) Jyeshtha New Moon	...	... June	7	39	7	2	30	40	
(Table XI—B. Addendum) Shortest interval from Jyeshtha New Moon to No. 3 Krittika Nakshatra	...	...	26	6	10	26	6	10	
Add Nakshatra correction for 1910 (XI—C. Addendum)	...		0	16	14	0	16	14	
		June	34	1	31	28	53	4	
(Table IX-*l*, p. 23.) Nakshatra Eqn. for Anom. of d. 1 gh. 19 p. 47			—	6	20	27	33	17	(1 Anom. Month.)
		June	33	55	11	1	19	47	

Krittika Nakshatra ended on June 33. *i.e.*, on 3 July 1910, at 55 ghatikas 11 palas after mean Lanka Sunrise. If we want local time, we should use Table XIII.

II.—Required the ending moment in ghatikas and palas of Yoga Vyatipata (No. 17) in July 1910. (v. p. 232 of Tables).

			d.	gh.	p.	☉'s Anom. d.	☉'s Anom. gh.	☉'s Anom. p.	☾'s Anom. d.	☾'s Anom. gh.	☾'s Anom. p.	
(Table XII, p. 151.) Ashadha New Moon	...	... July	7	10	57	84	58	29	4	29	13	
(Table XI—B, Addendum) Shortest interval from Ashadha New Moon to No. 17 Vyatipata Yoga	...	...	3	58	34	3	58	34	3	58	34	
(Table XI—C, Addendum) *Add* Yoga correction for A.D. 1910.			0	30	13	0	30	13	0	30	13	
(Table IX-*i*, p. 20*a*) Sun's Yoga Eqn. for 89 d. 27 gh., + 1 gh. 25 p.			11	39	44	89	27	16	8	58	0	
(„ p. 20*b*,) Moon's Yoga Eqn. for 8d. 59 gh. 25 p. — 19 gh. 40 p. Sum — 18 gh. 15 p.												
			—	18	15	(☉'s Yoga Eqn.)			+	1	25	
		July	11	21	29				8	59	25	

i. e., No. 17 Yoga Vyatipata ended at 21 gh. 29 p. after mean Lanka Sunrise on 11 July 1910.

Table X and Eye-Table.—Lunar Tithis (ANY YEAR IN TAB. X.)

This method will be of immense service to Epigraphists who will require the English equivalents of thousands of tithis ranging from 1 B.C. to modern times. With Table X and the Eye-Table the operation can be performed in less than a minute. Thus,

Required the ending moment (correct to two places of decimals) of Ashada Sukla 12, A.D. 484, K.Y. 3585.

	Week-day.	Month and day.	Fraction of day.		☉'s Anom.	☾'s Anom.	
Mean ending moment of Ashada New Moon Tithi. A.D. 484 (Table X).	7	Je. 9	·67		24·39	4·49	
				☉'s Eqn.—·04. (Eye-Tab.)	59·06	3·95	
Collective duration of 12 tithis (Eye-Tab.)	11 +1*	11	·81		83·45	8·44	
				☾'s Eqn. +·41 (Eye-Tab.)	11·81	11·81	
	19	21	·48		95·26	20·25	
Sum of ☉'s and ☾'s Equations	...	...	+·37	+·37		—·04	(☉'s Eqn.)
(19–14)=	5	21	·85			20·21	

ANSWER.—**Thursday, 21 June, A.D. 484, at ·85** (*i.e.*, **by Eye-Table, 51 ghatikas or 20½ hours**) **after sunrise (Lanka time).**

The absolutely correct time differs from the above by only 11 palas, as we may see at p. 91, Sec. **259** of the text.

* When the sum of the several fractions of a day in the column headed *fraction of day* exceeds unity, we should add 1 to the "*Week-day*" *as well as the* "*Month and day*" column.

Table XVII.—Nakshatras and Yogas (ANY YEAR IN TABLE X).

Nakshatra current at ending moment of above Tithi.

We calculate from Tab. XVII A and C, (pp. 207, 209),

Sun's longitude for 95·26 days of the Solar year, *i.e.*,
91·49°—·54°+·26° = 91·21°

Add No. of tithi, multiplied by 12° = 12 × 12° = 144°
(*i.e.*, Moon's *less* Sun's long.)

Total ... 235·21°

This, by Eye-Tab. is the long. of *Nakshatra* Jyeshtha.

Yoga current at ending moment of above Tithi.

2 × Sun's longitude as in 1st column ... 182·42°

Add Moon's *less* Sun's long. = No. of tithi × 12° = 144°

Total ... 326·42°

This, by Eye-Tab., is the long. of *Yoga* Brahman.

"INDIAN CHRONOLOGY"

By Diwan Bahadur L D Swamikannu Pillai, M.A., B.L (Madras), LL.B. (London).

Specimen **Horoscope** for child born at Madras at 9-30 a m on 16th October 1898

(*Cast without the aid of any Panchanga and solely by the rules* in **Indian Chronology**)

N B—For dates since the introduction of Madras Standard Time (1 July 1906) we should deduct 9 minutes from Madras clock time to arrive at Madras Local Time but no such reduction is made in the present case which is anterior to 1 July 1906

I—Moment of Birth in Lanka Time

By Table XIII (13° N Lat 16 Oct) 9 30 a m Madras Local Time corresponds to the same *minus* 1 479 seconds = 9-5 a m, or 3 hours, 5 minutes (=by Table XIX, 1285 day) = (by Table XX) 7 ghat 43 palas after mean Lanka Sunrise

II—Moon's Longitude (188 2° = Nakshatra **Svati** = **Tula** Rasi)

For the position of the moon we determine the ending moment of the previous as well as of the current Nakshatra, which from an inspection of Tables XII and XI B (Addendum) we see to have been *Svati* (Nakshatra No 15)

						No 14 Chitra Nakshatra				No 15 Svati Nakshatra			
						Mean New moon			☾'s Anom	Mean New Moon			☾'s Anom
(Table XII) Nija Asvina (1898)					Oct	d 15	gh 14	p 50	d gh p 21 4 3	(Oct)	d 15	gh 14	p 50	d gh p 21 4 3
	Chitra			Svati										
Table XI B	d	gh	p	d	gh	p								
	28	23	51	29	24	54								
Add	1	32	19	1	32	19								
	29	56	10	30	55	53								
(1 Syn Mo)	29	31	50	29	31	50								
Net Addn.	0	24	20	1	24	3	0	24	20	0 24 20		1	24	3	1 24 3
					Oct	15	39	10	21 28 23	(Oct)	16	38	53	22 28 6
(Table IX-*b*) Nakshatra Eqn					...		+22	9	Moment of Birth d gh p			+20	17	
					Oct	16	1	19	(Oct) 16 7 43	(Oct)	16	59	10	
Deduct ending moment of previous Nakshatra									16 1 19		16	1	19	
(1) Expired portion of Nak Svati at birth (2) Total duration of Svati									(1) 0 6 24	(2)	0	57	51	

The expired portion of Svati Nakshatra at the moment of birth was $\frac{6 \text{ gh } 24 \text{ p}}{57 \text{ gh } 51 \text{ p}} \times \frac{40°}{3} = \frac{1067 \times 40°}{9612 \times 3} = 1\ 50°$

The Moon's position at moment of birth was (by Eye Table) long of Svati or 186 67° + 1 50° = 188 17°

III—Position of Rahu and Ketu (Rahu 263 6°. Ketu, 83 6°)

The No of days elapsed in the Solar year at the moment of birth being Oct 16 1285 *minus* Ap 12 1029 = (by Table VIII) 187 0256 days we have from Table XVII B Rahu's mean place

At commencement of Solar year A D 1898 (Ap 12 1029),	273 4898°	Rahu's motion for	180 days = 9 5371°
Deduct motion for 187 03 days,	9 9096°	,, ,,	7 ,, = 3709°
	263 5802°	,, ,,	03 = 0016°
		,, ,,	187 03 days 9 9096°

IV—Position of remaining Planets.

Table XVIII (p 221) gives us the position of all the remaining planets at mean Sunrise on 9 Oct 1898 and on 19 Oct 1898 The moment of birth was 1285 of a day after mean Lanka Sunrise on 16 Oct 1898, *i e*, 7 1285 days subsequent to mean Sunrise on 9 Oct. 1898 Therefore we should take proportional parts equal to (10 days divided by 7 1285 days *i e*,) 71285 of the difference between the positions of the various planets at Sunrise on 9 Oct 1898 and their positions at Sunrise on 16 Oct 1898

Planet		Position on 9 Oct 1898 at 6 a m (Lanka time) °	Position on 19 Oct 1898 at 6 a m (Lanka time) °	Difference °	71 of the difference °	Position at 9 30 a m (Madras Time) on 16 Oct 1898 °	Rasi.
Sun	...	173 0	183 0	10	7 1	180 1	**Tula**
Mars	..	87 2	91 0	+ 3 8	+ 2 698	90 0	**Cancer**
Mercury	...	164 1	181 0	+ 16 9	+ 11 999	176 1	**Virgo**
Jupiter	...	176 8	179 1	+ 2 3	+ 1 633	178·4	**Virgo**
Venus	...	222 4	230 4	+ 8 0	+ 5 68	228·1	**Scorpio**
Saturn	...	224 9	225 9	+ 1 0	+ 0 71	225·6	**Scorpio.**

V.—Lagna. (228·9°=18·9° in Vrischika.)

For Lagna we proceed according to the rules in Ch. X of *Indian Chronology*. The interval between local Sunrise and the moment of birth being 3 hours 30′ or ·1458 of a day, and the Sun's longitude at Sunrise having been 173·0°+7°=180·0°, the portion of the ecliptic which was lagna at the moment of birth was roughly 180·0°+·1458×360° =232·48°. The corresponding correction for Sun's tropical longitude is that for 238 days of the Solar year (=232·43°, Sid. long. *V* Table XVII-A) that is (by Table XIII, lat. 13°. 258th day) −1022 seconds of time.

N.B.—180·0° is the Sun's longitude at Lanka Sunrise. Had we taken the ⊙'s long. at Madras Sunrise, as we ought strictly to have done, it would have been 179·9437° against 179 9537°, the ⊙'s long. at Lanka Sunrise.

The correction for the trop. long. of the Sun on 16th October 1898 was (Table XIII, lat. 13°, 207th day) −108 seconds of time.

Therefore the point of the ecliptic which we determined approximately as 232·43° was lagna on the day in question at −108+1022 seconds of time, *i.e.*, 914 seconds later than the moment of birth.

Now, by the table in Sec. 76 of the Text, in 13° N. Lat, when Sign VIII of the ecliptic is rising,
257 seconds of time are taken by 1 degree of the ecliptic to rise above the horizon.
∴ 914 ,, ,, ,, ,, 3·56 degrees .. ,, ,, ,, ,,
∴ The **lagna** in question was 232·43° − 3·56° = **228·87°** (or 18·9° in Vrischika)

We can now draw the Rasi and (applying Table XXI) the Navamsa diagram.

Pisces. **V**	*Aries.* **VI**	*Taurus.* **VII**	*Gemini* **VIII** Ketu (83·6°)
Aquarius. **IV**	**Rasi.** *N.B.*—The degrees will enable the reader to construct other diagrams, *e.g.*, *Trimsamsa*, *Shastihiamsa*, *etc.* *Roman numerals indicate Bhavas.*		*Cancer.* **IX** Mars (90·0°)
Capricorn. **III**			*Leo.* **X**
Sagittarius. **II** Rahu (263·6°)	*Scorpio.* **I** Lag. (228·9°) Venus (228·1°) Sat. (225·6°)	*Libra.* **XII** Sun (180·1°) Moon(188·2°)	*Virgo* **XI** Merc.(176·1°) Jup. (178·4°)

		Ketu.	Mars.
	Navamsa. *This diagram is filled up by applying Table XXI to degrees of longitude.*		Mercury.
Lagna. Moon. Venus.	Saturn. Rahu.		Sun. Jupiter.

OPINIONS.

(From *The Madras Mail.*)

"STUDENTS of Indian Chronology, Archæology, Epigraphy and History are under a deep obligation to Dewan Bahadur L. D. Swamikannu Pillai for his work on 'Indian Chronology', the result of laborious research in the field of Indian astronomy, literary and traditional. The work clearly expounds the meaning and method of the calculations necessary to form an Indian almanac or *Panchangam*. . . . . .

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·01	0½	0,15	·51	30½	12,15
·02	1	0,30	·52	31	12,30
·03	2	0,45	·53	32	12,45
·04	2½	1, 0	·54	32½	13, 0
·05	3	1,15	·55	33	13,15
·06	3½	1,30	·56	33½	13,30
·07	4	1,45	·57	34	13,45
·08	5	2, 0	·58	35	14, 0
·09	5½	2,10	·59	35½	14,10
·10	6	2,30	·60	36	14,30
·11	6½	2,40	·61	36½	14,40
·12	7	2,50	·62	37	14,50
·13	8	3,10	·63	38	15,10
·14	8½	3,20	·64	38½	15,20
·15	9	3,35	·65	39	15,35
·16	9½	3,50	·66	39½	15,50
·17	10	4, 5	·67	40	16, 5
·18	11	4,20	·68	41	16,20
·19	11½	4,30	·69	41½	16,30
·20	12	4,45	·70	42	16,45
·21	12½	5, 0	·71	42½	17, 0
·22	13	5,20	·72	43	17,20
·23	14	5,30	·73	44	17,30
·24	14½	5,45	·74	44½	17,45
·25	15	6, 0	·75	45	18, 0
·26	15½	6,15	·76	45½	18,15
·27	16	6,30	·77	46	18,30
·28	17	6,45	·78	47	18,45
·29	17½	7, 0	·79	47½	19, 0
·30	18	7,10	·80	48	19,10
·31	18½	7,30	·81	48½	19,30
·32	19	7,40	·82	49	19,40
·33	20	8, 0	·83	50	20, 0
·34	20½	8,10	·84	50½	20,10
·35	21	8,25	·85	51	20,25
·36	21½	8,40	·86	51½	20,40
·37	22	8,50	·87	52	20,50
·38	23	9,10	·88	53	21,10
·39	23½	9,20	·89	53½	21,20
·40	24	9,35	·90	54	21,35
·41	24½	9,50	·91	54½	21,50
·42	25	10, 0	·92	55	22, 0
·43	26	10,20	·93	56	22,20
·44	26½	10,30	·94	56½	22,30
·45	27	10,45	·95	57	22,45
·46	27½	11, 0	·96	57½	23, 0
·47	28	11,20	·97	58	23,20
·48	29	11,30	·98	59	23,30
·49	29½	11,45	·99	59½	23,45

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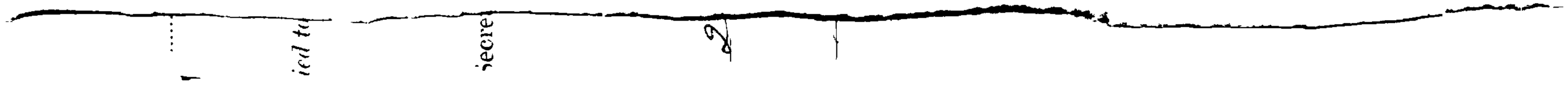

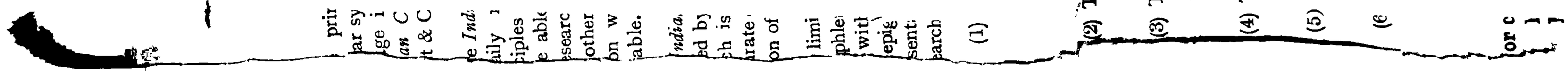

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SUBJECT.....

.....

.....

*Diary No. of letter replied to*_____

General and Revenue Secretariat

( )

, the *191* .

Date of issue 20. 10. 15.

Signed by Lieut. B. Subba Rao.

Sub

Section Edn

File No. 28. 14.

Serial No. 198

No. 1785

To The Hon'ble Diwan Bahadur

L. D. Swamikannu Pillai, Esq

MA, BL, LL.B. (London)

Chepauk, Madras.

Sir,

Adverting to your letter dated 14 April 15 regarding the patronage to be accorded to your publication "An Indian Ephemeris" AD 1800 to AD 2000

over.

N 19/10

I am directed to request
to be informed if you
would supply the tables
for determining tithis and
nakshatras, &c. in local time
~~for various places in the~~
in case the Govt. ~~should~~
purchase
~~order~~ ~~copy~~ fifty copies
of the Ephemeris.

I have &c

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5/10/15

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Mr Hughes

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From

The Hon'ble Diwan Bahadur

M. R. Ry. L.D.Swamikannu Pillai Avargal, M.A.,B.L.,LL.B.,

Registrar of Co-operative Societies, M A D R A S.

To

The Secretary to the Government of

His Highness The Maharaja of Mysore,

Departments of Education and Agriculture.

Sir,

I very much regret the delay in acknowledging your letter No.1785/F.D.28-14-198 dated 20th October 1915, asking me if I can supply tables for determining Tithis and Nakshatras etc., in local time, in case the Government of Mysore should purchase 50 copies of my "Indian Ephemeris". I would have no objection to supply 50 copies of such tables in addition to as many copies of my "Indian Fphemeris", provided His Highness's Government - would be pleased to pay the extra cost, and provided they would name the places for which calculations should be made. The extra cost would be Rs.30-0-0 for every 5 places; that is, the local tables for 5 places in Appendix I of my "Indian Ephemeris" would cover six pages and I estimate that the cost of printing and paper will be Rs.5/- a page. I charge nothing for the -- trouble of calculation.

I may mention, however, that my offer to supply Special local tables, was intended for areas beyond the 17th degree of latitude, North of the Equator, and not for areas like Mysore which lies between the 11th and the 16th degrees of latitude. The tables for Mysore City itself will be found at pages 402 to 407 of my Indian Fphemeris, and the local tables for other --

places

places in Mysore State, can be easily calculated from the information furnished partly in Appendix I and partly at page 433 of the above work. I quite understand that officials in Mysore State, using the work for reference, would like to have special tables calculated for different places in that Province, but seeing that the total addition or subtraction for local time at any place in the Mysore State would seldom exceed .02 of a day i.e one ghatika of time, and that the local time correction for Mysore city for every day in the year is already given in Appendix I to my work, I think it is hardly worth while to incur additional expense on account of the tables in question. I do not know if it was understood that I would supply the -- special tables for local time free of charge; even if it was, it would be obvious that by undertaking to supply the information, say, for 20 places at my own expense, I would be reducing the sale price of 50 copies by Rs.120-0-0 or nearly Rs.2-8-0 per copy. I do not suppose that any purchaser would expect me to sell the book, under these circumstances, at what would practically amount to half-price. I do not wish to be troublesome, but I think the Government of Mysore would like me to explain the position, and I have therefore done so.

I shall be glad to have an answer to this letter at your convenience.

I have the honour to be,

Sir,

Your most obedient servant,

L.D.Swamikannu

Author of "Indian Ephemeris"
A.D. 1800-A.D. 2000

Purchase of Indian Ephemeris

G.R.S. 28]

File No. 28-14

Serial No.

Diary No. of letter replied to 2901

Proceedings of the Government of His Highness the Maharaja of Mysore

GENERAL AND REVENUE SECRETARIAT.

( )

READ—

, *the* 191 .

correspondence ending with letter No. dated 5th Feb. 1916 from the Hon'ble Diwan Bahadur

Date of issue 21-3-16.

Signed by Sir K. Sesha Rau

ORDER THEREON.—No.

M.R.Ry. L.D. Swaminathan Pillai Avargal, M.A., B.L., L.B., Registrar of Coop. Societies regarding the purchase of certain copies of the Ephemeris

and Author of Indian Ephemeris - A.D. 1800 - A.D. 2000

over.

SUBJECT.

GPB—50,000—1-12-12

for the use of some of the ~~of~~ departments of the State.

Order No. 4960. 57

Govt: are pleased to direct that 45 copies of the "Indian Ephemeris - AD 1800 to A.D. 2000" at Rs 5 a copy be purchased for the use of the marginally noted departments. The cost will be borne by the respective departments out of their contingencies.

	No. of copies
* Registrar, Chief Court of Mysore. Bangalore.	30
Dept. Genl. of Exn. — Bangalore	8
— do — Police. — do —	1
~~Excise~~ Commr. in Mysore - Bangalore	2
Secy. Genl ~~Revenue~~ Dept. Bangalore	4
Total	45

Secy. Genl. 4/1/3

[illegible]

6/3/16

To the Registrar Ch. Ct

" Secy. to Govt.

" — do — Police

" Excise Commr. in Mysore

" Secy. Genl. Depts.

" The Comptroller.

~~The Hon'ble Devan Bahadur K.S. L.D. Swamikannu Pillai~~

~~Copy of the above is forwarded~~

~~with~~ with a request that he will send the copies of the Ephemeris noted above & the Secretariat Dept. to recover the cost from them: ~~A copy~~

~~of the~~ Correspondence

Cop to Cash Section

2/3/3

Proceedings of the Government of His Highness
the Maharaja of Mysore.

- - - - -

Read--

Correspondence ending with letter dated 5th February 1916 from the Hon'ble Diwan Bahadur M. R. Ry. L. D. Swamikannu Pillai Avergal, M.A., B.L., LL.B., Registrar of Co-operative Societies and author of "Indian Ephemeris - A.D.1800- A.D.2000 regarding the purchase of copies of the Ephemeris for the use of some of the departments of the State.

Order No. 4960-5/Edn. 28-16. 210.

Dated, Bangalore, the 21st March 1916.

Government are pleased to direct that 45 copies of the 'Indian Ephemeris - A.D.1800 to A.D.2000' at Rs.5 a copy be purchased for the use of the marginally noted departments. The cost will be borne by the respective departments out of their contingencies.

	No. of copies.
Registrar, Chief Court of Mysore, Bangalore.	30
Inspector General of Education in Mysore Bangalore.	8
Inspector General of Police in Mysore, Bangalore.	1
Excise Commissioner in Mysore, Bangalore.	1
Secretary, General Department, Bangalore.	4
Total. ...	45

for Offg. Secretary to Government,
Departments of Education & Agriculture.

To

The Registrar, Chief Court of Mysore.
The Inspector General of Education in Mysore.
" Inspector General of Police in Mysore.
" Excise Commissioner in Mysore.
" Secretary, General Department.
" Comptroller, Mysore Government.

MRN.8

(G- R. S. 26]

Diary No. of letter replied to .....

General and Revenue Secretariat

( )

, the *191* .

Date of issue. 21-3-16

Signed by Sri K Subba Rao

Ed. File No. 2 & 16.

Serial No. 21

No. 4966.

To

The Hon'ble Diwan Bahadur
M.R.Z. L. D. Swamikannu Pillai
Avargal. M.A. B.L. L.T.
Registrar of Co-op. Societies,
~~Madras~~
Chepauk. Madras.

Sir,

With reference to ~~Advertising~~ correspondence ending with your letter ~~dated~~ dated the 5th Feb. 1916 regarding the purchase of the "Indian Ephemeris" I am directed

over.

SUBJECT.

to enclose for your info
a copy G. O. No 4960-5921-0-10-
issued on the subject.
In the circumstances explained.
by you, Govt. consider that
the tables for determining
tithis and nakshatras &c.
in local time for various places
in the state are not required.

I have &c

Secy. to Govt.
Rd 1573/16

15/3

11/3

£15/3

List of enclosures

Copied by

Examined by

GPE—20,000—10-10-14

VI/27/N

3632

To Chepauk. Madras
28-III 26. 3. 16
212

P. G. D'Souza Esq B.A. B.L.,
Offg Secretary to the Govt. of H.H. the Maharaja of Mysore
Department of Education, Agriculture & Commerce.

Dear Sir,

I am thankful to the Government of His Highness the Maharaja of Mysore for the order No 4960 5/E.du 28.14.210 dated 21st March 1916 for the purchase of 45 copies of my "Indian Ephemeris" at Rs 5 a copy. Unless I hear from you to the Contrary I shall cause the books to be sent to your address by goods train on 27th or 28th Instant. If they are to be sent to any other address kindly wire to me on receipt of this

Yours truly
L D Swamikannu

3741.

Chetpet, Madras
31st April 1916

To.

P. G. D'Souza Esq., B.A. B.L.,
Offg. Secretary to the Govt. H.H the Maharaja of Mysore
Departments of Education, Agriculture & Commerce

Sir,

I beg to enclose herewith the Ry. receipt for 45 Copies of Ephemeris sent to day by Goods train to Bangalore City

I beg to request to kindly acknowledge the receipt of the Pass

I beg to remain
Sir
M. S. Subramania Iyer
for
The Hon'ble Diwan Bahadur
L. D. Swamikannu Pillai

1714

2345

G. R. S. 261

SUBJECT. .....

.....

Diary No. of letter replied to_____

Section Edn.

File No. 28-14.

Serial No. 213.

General and Revenue Secretariat

( )

, the 191 .

No. 6111-14.

Date of issue 24-1-16.

To

(1) The Registrar, Chief Court

(2) The Dy of Education

(3) - Dy of Police.

(4) - Excise Commr. & Dy of Registration

Signed by Mr Dy Sc & Nationality Hindu

Hag V

Sir,

I am directed to invite reference to G.O. No 4960-5 Edn. 28-4-210 of the 21st March 1916, and forward herewith (1) 30 (2) 8 (3) 1 (4) 2 copies of "Indian Ephemeris" by the Hon'ble Dewan Bahadur M.R.Ry Swamikannu Pillai, M.A., B.L., LL.B., Madras, and to request that the cost thereof (viz at Rs 5 a copy) may be remitted direct to the author at a very early date. I am further to request that I may be informed when this is done.

I have &c,

Mr

for Dy Secretary to Govt
Edl Dept

List of enclosures.

Copied by

Examined by

GPB—20,000—14-2 14

Money Lent
2 bks
NOR
24-4-16

G. R. S. 26]

SUBJECT. .....

....

....

Section Edn.

*Diary No. of letter replied to*__ __

File No. 28-14.

Serial No. 214

General and Revenue Secretariat

( )

, *the* 191 .

No. 6115-

Date of issue 24-4-16.

To

The Hon'ble Dewan Bahadur mKly

Signed by Mr. G. Kesava Sivja Rao

L D Swamikannu Pillai M.A, B.L, LL.B,

Chepauk,

Registrar of Co-operative Societies, Madras

Sir,

I am directed to acknowledge the receipt of the 45 copies of "Indian Ephemeris - A.D. 1800 - A.D 2000" sent by you and to remit herewith to you by M O No. 9880 dt 29-4-16 the sum of Rs 20-- being the cost of the 4 copies retained in this Office, as per GO No. 4960-5 Edn. dt 28-14-210 dt the 21st March 1916, a copy of which has been sent to

over.

2 The cost of the remaining 41 copies will be remitted to you direct by the other Officers named in the inside Govt order, who have also been duly written to in the matter today.

I have &c,

for Offg Secretary Govt
E & A Deptt.

List of enclosures.

Copied by

Examined by

GPB—20,000—14-2-14

Sus

Ed. File No. 20. 11.

Serial No.

No. 7456

(G. R. S. 26]

Diary No. of letter replied to .....

General and Revenue Secretariat

( )

, *the* 191 .

Date of issue 23-6-16.

Signed by Lt. K. Subba Rao

W

To

The Hon'ble Dewan Bahadur

M.K.Ry. L. D Swami Kannu Pillai, M.A. M.L.S.,

Registrar of Co-operative Societies, Chepauk,

Madras

Sir,

I am directed to invite reference to this office No. 6115, of the 24th April 1916, to you remitting a sum of Rs 20 on account of the cost of the 4 ~~boat~~ copies of your "Indian Ephemerides - A.D 1800 - A.D 2000", and to request the favour of an acknowledgment in duplicate for the receipt of the amount

I have &c;

over.

for Secretary to Govt

SUBJECT.

List of enclosures

Copied by

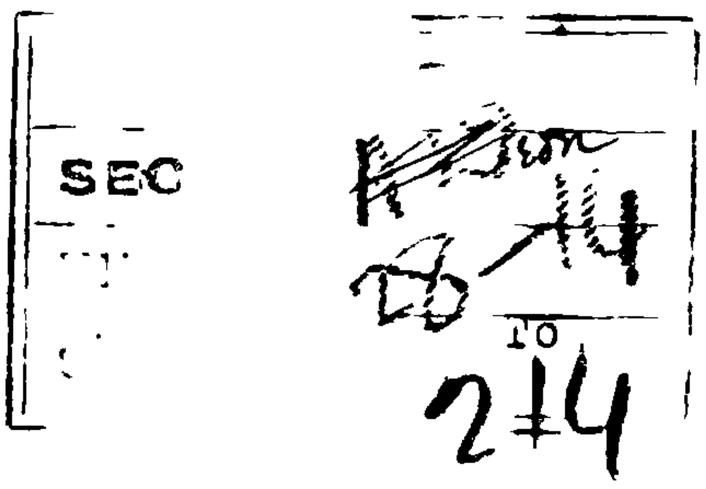
Examined by

GPB—20,000—10-10-14

Nr. 5892/429 with 2 Books ✓

U1/27/6

5748



Chief Court of Mysore,

Bangalore, dated the 22nd June 1916.

245

N.J.Gopaliengar, Lsq., B.A., LL. B.,

Registrar of the Chief Court of Mysore.

P.G. D'SOUZA, Esq., B.A., B.L.,

Offg. Secretary to the Government of His

Highness the Maharaja of Mysore,

Departments of Education and Agriculture.

S i r ,

2

Adverting to your letter no: 6111-4/Edn.23-14-213

dated the 24th April 1916 forwarding 30 copies of the Indian Ephemeris, I am directed to return herewith two copies as the First Munsiff of Mysore and the Munsiff of Chickballapur report that each of them had purchased a copy direct from the Author.

I have the honour to be,

S i r ,

Your most obedient servant,

N. Gopaliengar

REGISTRAR.

H.C.C.

G R. S. 26]

Diary No. of letter replied to 5743

General and Revenue Secretariat

( )

, *the* 191 .

Date of issue 16-7-16.

Signed by. M. K. Subbarao Naidu

Ed. File No. 28-14

Serial No.

No.

To

The Registrar of the Chief Court of Mysore

Sir,

With ref^ce to your letter No. 5892/429 dated 24th June 1916, returning two copies of the Indian Ephemeris by the Hon'ble Dewan Bahadur L. D. Swamikannu Pillay, I am directed to invite reference to G.O No. 4960-5 Edn. 28-14-210 of the 21st March 1916, directing that the cost of the said publication should be borne by the department purchasing the same, and to enquire how many copies were paid for by you

over.

SUBJECT.

G.R.S. 13]

Routine Notes.

[To be used only for notes, requisitions, etc., not intended for permanent record.]

Duplicate

From
The Hon'ble Diwan Bahadur -
L.D. Swamikannu Pillai
Registrar of Co-op Societies -
Author of "Indian Ephemeris
A.D. 1800 - A.D. 2000"

Received with thanks,
from the office of the Offg. Secretary to the Government
of His Highness the Maharaja of Mysore, Departments
of Education and Agriculture, the Sum of Rs 20/-
(Rupees Twenty only) being the cost of 4 copies
of "Indian Ephemeris A.D. 1800 to 2000" retained by
that office

L.D. Swamikannu

N.B.—Should routine notes be written on small slips, the notes must be copied or slips pasted on this form

GPB—50,000—5-8-15